Ohio Agricultural Experiment Station

TECHNICAL SERIES, BULLETIN No. 9

ENVIRONMENTAL FACTORS IN RELATION TO PLANT DISEASE AND INJURY: A BIBLIOGRAPHY

J. D. WILSON

WOOSTER, OHIO, U. S. A., JULY, 1932

One Dollar per Copy

CONTENTS

This page intentionally blank.

ENVIRONMENTAL FACTORS IN RELATION TO PLANT DISEASE AND INJURY: A BIBLIOGRAPHY

J. D. WILSON

INTRODUCTION

This bibliography is an assembly of some of the papers in botanical literature which make reference to the influence of those environmental factors which are, in particular instances, either directly or indirectly harmful to plants. These factors may act directly on the plant, as in the freezing, desiccation, scalding, or poisoning of its tissue, or they may affect a host indirectly by exerting an influence on some host-parasite relation. In other instances, the factor involved may act only on a pathogen without reference to a host. The environmental factors considered are listed in the index to the second section of this paper, and the scope of the diseases, injuries, and abnormalities dealt with is indicated in the third section.

Many of the somewhat secondary possibilities of this sort of bibliography have been neglected; others have been considered in some detail. The incompleteness of the whole is appreciated by the author, but the addition of further citations in any number would involve a disproportionate effort. The papers listed have not been appraised in any way but have been included simply on the basis of some reference to the subject here considered. No reference has been made to the copies of the Plant Disease Reporter.

The author index is arranged alphabetically by senior authorship. In those instances where a given author is referred to more than once the arrangement is chronological. When an author is listed two or more times for one year, bulletins and annual reports are given precedence over paged articles in periodicals, and the latter are arranged according to the size of the page numbers. Joint authorship is given a secondary position, and such citations are arranged alphabetically as well as chronologically. Each citation is given a number and is referred to in the environmental and host-disease-injury indexes by this number. In cases where authorship is indefinite, as in many of the Annual Reports from Experiment Stations, the items are indexed under the term "anonymous"

and there arranged chronologically according to the geographical location concerned. Plate and figure numbers have been omitted from citations for the sake of brevity; likewise, names of publishers for books. Also, the authorities for botanical names have been omitted from the indexes, and these names have not been put in italics where they occur in titles.

The two cross indexes provided serve, first, to group the items given in the author list according to subject and, second, to provide a form of annotation of the individual articles. In these indexes, as indicated above, only the number referring to a given citation in the author list is given. The index to the second section lists the environmental factors considered. These were listed and the items assembled under each heading after the papers appearing in the author list had been abstracted. In this way divisions and subdivisions, as they were necessary, were provided for the factors to be considered. If an article refers only to the influence of one environmental factor on a single disease of a single host, as, for instance, the cardinal temperatures for the infection of cabbage by Fusarium conglutinans, a consideration of both cross indexes would provide a brief abstract of that article. However, if an article treats a subject in a general way, having a title somewhat as follows, "The influence of the environment on plant disease", this annotating function is of little use.

Items listed as "general" under the various headings are similar to the one last mentioned above, in which the reference to the factor considered is so general that they cannot be more specifically placed. This is true of the division "Environment". "Climate, regional" refers chiefly to the geographical delimitations of disease incidence. The division "Weather" includes many references of a very general nature, but some of these are listed under more specific sub-divisions. Moisture and temperature of air and soil exert a multitudinous array of effects on plant disease, many of which are definitely mentioned by authors and are so indexed. Also, these factors have been extensively studied by many investigators in their influences on fungi without reference to a host plant. "Host characteristics" assume importance in the host-disease relation. "Nutritional" factors may be either direct or indirect in their effect on disease. Both excesses and deficiencies of a number of elements and compounds are listed. The divisions "Time Factor", "Toxins", and "Chemotropic Responses" were included to provide a place for the listing of the articles making reference to these subjects, which could not be otherwise indexed, and the lists as given do not afford

a complete assembly of the literature available on these three subjects. The headings of the remaining divisions are self-explanatory.

In the host-disease-injury index the common names of the hosts are arranged alphabetically, and, under each of these hosts, their respective diseases and types of injury are grouped in the same manner. Names of pathogenic forms or any general terms are inserted in alphabetical order in the list of host names with equal ranking. In an additional list the scientific names of the hosts included in the above index are arranged alphabetically for the convenience of those not acquainted with the common names. Bulletin 1366, 1926, of the U. S. Department of Agriculture, entitled "A check list of diseases of economic plants in the United States", has been used as the authority on nomenclature whenever possible. Exceptions to this are those instances in which the name, either of host or disease, is not included in the bulletin or could not, with the information at hand, be identified with any one that is included. In some instances related items are grouped under common headings only for convenience in indexing. The abbreviation "sp." as used in this bibliography after a generic name indicates indefiniteness as concerns the specific name. The form "spp." is used in much the same manner but indicates that a number of specific names are included under the genus concerned. Of these forms, any or all may be definitely or indefinitely known but not separately listed.

The author wishes to acknowledge his indebtedness to those members of the library staffs of the Ohio Agricultural Experiment Station, the U. S. Department of Agriculture, and the Ohio State University who so kindly gave their time in assisting in the identification and correction of many of the citations appearing in this bibliography.

LITERATURE CITATIONS

Abbe, C. 1895. (1)
The influence of cold on plants, a résumé. Exp. Sta. Rec. 6: 777-781.

Abbot, E. V. 1929. (2)
Diseases of economic plants in Peru. Phytopath. 19: 645-656.

Abbot, J. B., S. D. Conner, and H. R. Smalley. 1913. (3)
The reclamation of an unproductive soil of the Kankakee marsh region. Soil acidity, nitrification and the toxicity of soluble salts of aluminum. Ind. Agr. Exp. Sta. Bull. 170, 329-374.

Abe, T. 1927. (4)
Experimentelle Studien über die Pilzschaden von Reissämlingen. IV. (Japanese) Jour. Plant Protection 14: 12 pp.

————. 1928. (5)
Studies on a new disease of Celosia cristata caused by Fusarium celosiae n. sp. Mem. Coll. Agr. Kyoto Imp. Univ. 7: 51-64.

————. 1930. (6)
On the influence of copper sulphate to the growth of Piricularia oryzae, with special reference to the temperature as an environmental factor. Ann. Phytopath. Soc. Japan 2: 171-196.

Abell, T. H. 1927. (7)
Some observations on winter injury in Utah peach orchards. Utah Agr. Exp. Sta. Bull. 202, 1-28.

Aberson, J. H. 1917. (8)
Bijdrage tot de kennis der zoogenaamde physiologisch zure en alkalische zouten en hun beteekenis voor de verklaring der "bodemziekten". Cultura 29: 21-43.

Adam, D. B. 1923. (9)
Experiments on the storage of fruits. Jour. Dept. Agr. Victoria 21: 178-186, 234-241, 371-382.

———— and J. E. Harrison. 1925. (10)
Experiments in cool storage of apples. Jour. Dept. Agr. Victoria 23: 226-234.

Adams, J. F. 1918. (11)
An Actinomycete, the cause of soil rot or pox in sweet potatoes. Phytopath. 18: 152. (Abst.).

————. 1925. (12)
The spore discharge of the apple scab fungus in Delaware. Del. Agr. Exp. Sta. Bull. 140, 1-16.

————. 1925. (13)
Plant diseases and their control in relation to climatic conditions in Delaware. Trans. Penin. Hort. Soc. 39: 39-43.

————. 1926. (14)
Plant disease survey of economic crops. Del. State Bd. Agr. Bull. 15 (1), 1-28.

————. 1926. (15)
Terminal shoot and bud injury on peaches associated with low temperatures during the spring of 1925. Del. State Bd. Agr. Bull. 15 (3), 44-46.

————. 1927. (16)
Studies on pox of sweet potato. Del. Agr. Exp. Sta. Bull. 152, 41-47.

————. 1928. (17)
An Actinomycete, the cause of soil rot or pox in sweet potatoes. Phytopath. 18: 152. (Abst.).

————. 1929. (18)
An Actinomycete, the cause of soil rot or pox in sweet potatoes. Phytopath. 19: 179-190.

Addoms, R. M. 1923. (19)
The effect of the hydrogen ion on the protoplasm of the root hairs of wheat. Amer. Jour. Bot. 10: 211-220.

Aderhold, R. 1898. (20)
Über die in den letzten Jahren in Schlesien besonders hervorgetretenen Schäden und Krankheiten unserer Obstbäume und ihre Beziehungen zum Wetter. Zeitschr. Pflanzenkr. 8: 305-306. (Abst.).

————. 1900. (21)
Die Fusicladium unserer Obstbäume. Landw. Jahrb. 29: 541-588.

———. 1902. (22)
Über Clasterosporium carpophilum (Lév.) Aderh. und Beziehungen desselben zum Gumminflusse der Steinobstes. Arb. K. Biol. Abt. Land- u. Forstw. 2: 515-559.
———. 1902. (23)
Ein Beitrag zur Frage der Empfänglichkeit der Apfelsorten für Fusicladium dendriticum (Wallr.) Fuck. und deren Beziehungen zum Wetter. Arb. K. Biol. Abt. Land- u. Forstw. 2: 560-566.
———. 1907. (24)
Versuche über den Einfluss häuftigen Regens auf die Neigung zur Erkrankung von Kulturpflanzen. Arb. Biol. Reichsanst. Land- u. Forstw. 5: 354-360.
——— and W. Ruhland. 1906. (25)
Zur Frage der Überwinterung und Verbreiterung der Getreideroste. Mitt. K. Biol. Anst. Land- u. Forstw. 2: 3-5.
Agulhon, H. 1910. (26)
Recherches sur la présence et le rôle du bore chez les végéteaux. Thése (Paris), 163 pp.
Ajrekar, S. L. 1924. (27)
The problem of potato storage in western India. Agr. Jour. India 19: 35-44.
——— and J. D. Ranadive. 1923. (28)
The relative responsibility of physical heat and microorganisms for the hot weather rotting of potatoes in western India. Agr. Res. Inst., Pusa, Bull. 148, 1-18.
Åkarman, Å. 1927. (29)
Några erfarenheter om rotdödarens härjningar på de Skånska Vetefälten. Landtmannen 10: 739.
Albert, R. 1929. (30)
Die sogenannten Bodenerkrankungen, ihr Wesen, ihre Ursachen und Bedeutung für die Forstwirtschaft. Centralbl. Ges. Forstwes. 55: 277-279.
Alberts, H. W. 1927. (31)
Effect of pericarp injury on moisture absorption, fungus attack, and vitality of corn. Jour. Amer. Soc. Agron. 19: 1021-1030.
Alcock, E. S. 1926. (32)
"No growth", or bare patches in cereals. Jour. Dept. Agr. So. Aust. 30: 124-125.
Alexander, W. H. 1921. (33)
Frost and fruit in southern Ohio in 1917. U. S. Dept. Agr., Mo. Weather Rev. 49: 232-234.
———. 1927. (34)
Ohio weather and the sugar beet. Amer. Met. Soc. Bull. 8 (3), 50. (Abst.).
Allard, H. A. 1916. (35)
Some properties of the virus of the mosaic disease of tobacco. Jour. Agr. Res. 6: 649-674.
Allen, R. W. 1915. (36)
Condition of root system of apple trees in the Hood River district. Ore. Agr. Exp. Sta. Rept. (Hood River Br. Sta.) 1914-15, 20-24.
Allyn, W. P. 1928. (37)
The relation of lime to the absorption of iron by plants. Proc. Ind. Acad. Sci. 37: 405-409.
Alten, H. and W. Jännicke. 1891. (38)
Eine Schädigung von Rosenblättern durch Asphaltdämpfe. Bot. Zeit. 49: 195-199.
——— and ———. 1892. (39)
Nachtrag zu unserer Mitteilung über "eine Schädigung von Rosenblättern durch Asphaltdämpfe". Zeitschr. Pflanzenkr. 2: 33. (Abst.).
Ames, A. 1915. (40)
The temperature relations of some fungi causing storage rots. Phytopath. 5: 11-19.
Amos, A. 1907. (41)
Effect of fungicides upon the assimilation of carbon dioxide by green leaves. Jour. Agr. Sci. 2: 257-266.
———. 1918. (42)
The difficulties of growing red clover—clover sickness and other causes of failure. Jour. Roy. Agr. Soc. England 79: 68-88.
Ampola, G. and G. Tommasi. 1911. (43)
Composti di arsenico impiegati e pericoli che possono provenire dal loro uso. Ann. R. Staz. Chim. Agr. Sper., Roma, 5: 263-276.
——— and A. Vivenza. 1916. (44)
Danni cagionati alla vegetazione in un terreno prossimo agli Stabilimenti della Società Alti, Forni, Fonderie ed Acciaierie di Terni. Ann. R. Staz. Chim. Agr. Sper., Roma, Ser. 8, 2: 139-164.

Anderson, A. K. 1925. (45)
Biochemistry of plant diseases. Biochemistry of Fusarium lini Bolley. Minn. Studies in Plant Sci. (Biol.) 5: 237-280.
Anderson, H. C. L. 1890. (46)
Rust in wheat. Experiments and their objects. Agr. Gaz. N. S. Wales 1: 81-92.
Anderson, H. W. 1920. (47)
Diseases of Illinois fruits. Ill. Agr. Exp. Sta. Circ. 241, 1-155.
————. 1920. (48)
Some factors influencing the practical control of blister canker in apple orchards. Proc. Amer. Soc. Hort. Sci. 17: 111-116.
————. 1925. (49)
Experiments with fertilizers and cultivation for the control of bacterial spot of peach. Trans. Ill. Hort. Soc. 59: 258-266.
Anderson, M. L. 1921. (50)
Soil condition affecting the prevalence of Fomes annosus (Trametes radiciperda). Trans. Roy. Scot. Arbor. Soc. 35: 112-117.
————. 1930. (51)
A case of "damping-off" induced by the use of wood-ashes as a manure on seed-beds. Scottish Forestry Jour. 44: 7-16.
Anderson, P. J. 1912. (52)
Cement dust injury to fruit trees. Phytopath. 2: 45. (Abst.).
————. 1914. (53)
The effect of dust from cement mills on the setting of fruit. Plant World 17: 57-68.
————. 1923. (54)
The relation of soil moisture to formaldehyde injury of onion seedlings. Phytopath. 13: 392-403.
————. 1924. (55)
Botrytis cinerea in Alaska. Phytopath. 14: 152-155.
————. 1928. (56)
Soil reaction and black root rot of tobacco. Phytopath. 18: 131. (Abst.).
————. 1929. (57)
Soil reaction studies on the Connecticut tobacco crop. Jour. Amer. Soc. Agron. 21: 156-158.
———— and G. H. Chapman. 1923. (58)
Tobacco wildfire in 1922. Mass. Agr. Exp. Sta. Bull. 213, 1-27.
————, A. V. Osmun, and W. L. Doran. 1926. (59)
Soil reaction and black root-rot of tobacco. Mass. Agr. Exp Sta. Bull. 229, 117-136.
———— and W. H. Rankin. 1914. (60)
Endothia canker of chestnut. N. Y. (Cornell) Agr. Exp. Sta. Bull. 347, 527-618.
Angell, H. R. 1929. (61)
Purple blotch of onion (Macrosporium porri Ell.). Jour. Agr. Res. 38: 467-487.
Annand, P. N. 1927. (62)
Tumors in kale. Science 65: 553-554.
Anonymous. 1920. (63)
Deciduous fruits investigations. Calif. Agr. Exp. Sta. Ann. Rept. 39-45.
————. 1921. (64)
Plant pathology. Idaho Agr. Exp. Sta. Ann. Rept., Bull. 122, 41-44.
————. 1923. (66)
Pomology. Calif. Agr. Exp. Sta. Ann. Rept., 188-218.
————. 1923. (67)
Plant pathology. Idaho Agr. Exp. Sta. Ann. Rept., Bull. 131, 49-53.
————. 1925. (68)
The weather and plant diseases. Gardeners' Chron. 78: 261.
————. 1927. (69)
Chlorosis of trees and shrubs. Idaho Agr. Exp. Sta. Ann. Rept., Bull. 149, 14.
————. 1927. (70)
Biology. N. Mex. Agr. Exp. Sta. Ann. Rept. 38, 19-23.
————. 1928. (71)
Control of the anthracnose of grape. Dept. Agr. Bombay Leaflet 1, 1-3.
————. 1928. (72)
Krankheiten und Beschädigungen der Kulturpflanzen im Jahre 1927. Mitt. Biol. Reichsanst. f. Land- u. Forstw. 37: 212.
————. 1928. (73)
Plant disease studies. Tenn. Agr. Exp. Sta. Ann. Rept. 41, 27.

———. 1929. (74)
Control measures for citrus scab. Agr. Gaz. N. S. Wales 40: 714.
———. 1929. (75)
Corn disease studies. Iowa Agr. Exp. Sta. Ann. Rept. 1928-29, 60-61.
———. 1929. (76)
Department of Botany. Biennial Report for the fiscal years ending Nov. 30, 1927 and 1928. Mass. Agr. Exp. Sta. Bull. 247, 306-313.
———. 1929. (77)
Plantesygdomme i Danmark 1928. Oversigt, samlet ved Statens plantepatologiske Forsog. Tidsskr. f. Planteavl. 35: 420-471.
———. 1930. (78)
Tobacco diseases. Ky. Agr. Exp. Sta. Ann. Rept. 1929, 15-18.
Antonoff, S. M. 1926. (79)
Susceptibility of spring wheat to bunt in relation to the date of sowing (Russian). Sci. Trans. Siberian Agr. Acad. 5: 1-14.
Appel, O. 1912. (80)
Beitrage zur Kenntnis der Kartoffelpflanze und ihrer Krankheiten III. Arb. K. Biol. Anst. Land- u. Forstw. 8: 449-492.
———. 1915. (81)
Disease resistance in plants. Science 41: 773-782.
———. 1924. (82)
Fusarium als Erreger von Keimlingskrankheiten. Arb. Biol. Reichsanst. Land- u. Forstw. 13: 263-303.
———. 1929. (83)
Kohlkrankheiten II. Deutsche Landw. Presse 56: 546.
——— and G. Gassner. 1907. (84)
Untersuchungen über den Brand, insbesondere den Flugbrand des Getreides. Mitt. K. Biol. Anst. Land- u. Forstw., 9-12.
——— and E. Riehm. 1911. (85)
Die Bekämpfung des Flugbrandes von Weizen und Gerste. Arb. K. Biol. Anst. Land- u. Forstw. 8: 343-426.
——— and ———. 1912. (86)
Untersuchungen über die Brandkrankheiten des Getreides. Arb. K. Biol. Anst. Land- u. Forstw. 12: 9-14.
Archibald, E. S. 1920. (87)
Report of the division of botany. Canada Exp. Farms Rept., 58-64.
Arens, K. 1929. (88)
Untersuchungen über Keimung und Zytologie der Oosporen von Plasmopara viticola (Berl. et de Toni). Jahrb. Wiss. Bot. 70: 57-92.
———. 1929. (89)
Untersuchungen über Pseudoperonospora humuli (Miyabe u. Takah.), den Erreger der neuen Hopfenkrankheit. Phytopath. Zeitschr. 1: 169-193.
Armstrong, S. F. 1922. (90)
The Mendelian inheritance of susceptibility and resistance to yellow rust (Puccinia glumarum, Erikss. et Henn.) in wheat. Jour. Agr. Sci. 12: 57-96.
Arnaud, G. 1914. (91)
Les gelées et les altérations des feuilles d'arbres. Bull. Soc. Path. Végét. France 1: 21-25.
———. 1915. (92)
Effets de la grêle sur les arbres. Bull. Soc. Path. Végét. France 2: 121-122.
———. 1915. (93)
La jaunisse des betteraves en 1915. Bull. Soc. Path. Végét. France 2: 123-124.
———. 1915. (94)
Le mildiou des céréales (Sclerospora macrospora). Compt. Rend. Acad. Agr. France 1: 429-435.
———. 1919. (96)
Sur un mode de traitement de la chlorose. Rev. Vitic. 51: 325-330.
——— and F. Lafont. 1912. (97)
Accidents météorologiques et maladies du murier. Ann. École Nat. Agr., Montpellier, 11: 169-215.
Arndt, C. H. 1922. (98)
The growth of field corn as affected by iron and aluminum salts. Amer. Jour. Bot. 9: 47-71.

Arrhenius, O. 1921. (99)
A factor influencing the growth of tobacco wilt disease. Meded. Deli. Proefstn. (Ark. F. Bot. 18: 1-54, 1922.).
————. 1922. (100)
Bodenreaktion und Pflanzenleben. Leipzig.
————. 1923. (101)
Några bedrag till kannedomen om sambandet mellan markreaktionen och vissa kulturväxters utveckling. Orienterande försök. Centr. Försök. Jordbruksområdet Medd. 245: 1-13.
————. 1924. (102)
Försök till bekämpande av Betrotbrand. II. Kolkningens och markreaktionens inflytande på sjuka och friska betors utveckling. K. Landtbr. Akad. Handl. Tidskr. 63: 256-266.
————. 1926. (103)
Kalkfrage, Bodenreaktion, und Pflanzenwachstum. Leipzig.
————. 1930. (104)
Die Chlorfrage. Zeit. Pfl—ernähr. u. Düng. 16: 310.
Arthur, J. C. 1901. (105)
The asparagus rust. Ind. Agr. Exp. Sta. Ann. Rept. 13, 10-14.
————. 1901. (106)
Damping off of beets in the field. Ind. Agr. Exp. Sta. Ann. Rept. 13, 15-16.
————. 1903. (107)
Problems in the study of plant rusts. Bull. Torrey Bot. Club 30: 1-18.
———— and W. Stuart. 1900. (108)
Corn smut. Ind. Agr. Exp. Sta. Ann. Rept. 12, 84-135.
Ascroft, R. W. 1925. (109)
The conservation of the nation's vegetation; the effect of smoke on plant life. London.
Askinazy, W. 1928. (110)
The "hot winds" of the plains of southeastern Europe. (Trans. title). Jour. Sci. Inst. Amerlior. 17: 69-114.
Aso, K. 1902. (111)
On the influence of different ratios of lime and magnesia upon the development of plants. Bull. Col. Agr. Imp. Univ. (Tokyo) 4: 361-370.
————. 1903. (112)
On the physiological influence of manganese compounds on plants. Bull. Col. Agr. Imp. Univ. (Tokyo) 5: 177-185.
Atanasoff, D. 1923. (113)
Fusarium blight of the cereal crops. Meded. Landb., Wageningen, 27: 1-132.
————. 1926. (114)
Sprain or internal brown spot of potatoes. Phytopath. 16: 711-722.
Atkins, W. R. G. 1921. (115)
Relation of the hydrogen-ion concentration of the soil to plant distribution. Nature 108: 80-81.
————. 1922. (116)
Some factors affecting the hydrogen-ion concentration of the soil and its relation to plant distribution. Sci. Proc. Roy. Dublin Soc. 16: 369-413.
————. 1922. (117)
Note on the occurrence of the finger and toe disease of turnips in relation to the hydrogen-ion concentration of the soil. Sci. Proc. Roy. Dublin Soc. 16: 427-434.
————. 1930. (118)
The distribution of pasture plants in relation to soil acidity and other factors. Sci. Proc. Roy. Dublin Soc. 19: 533-547.
Atkinson, G. F. 1891. (119)
Black "rust" of cotton. Ala. Agr. Exp. Sta. Bull. 27, 1-16.
————. 1892. (120)
Some leaf blights of cotton. Ala. Agr. Exp. Sta. Bull. 36, 1-32.
————. 1892. (121)
Some diseases of cotton. Ala. Agr. Exp. Sta. Bull. 41, 1-65.
————. 1893. (122)
Oedema of the tomato. N. Y. (Cornell) Agr. Exp. Sta. Bull. 53, 75-108.
————. 1893. (123)
Oedema of apple trees. N. Y. (Cornell) Agr. Exp. Sta. Bull. 61, 299-302.
————. 1895. (124)
Damping off. N. Y. (Cornell) Agr. Exp. Sta. Bull. 94, 231-272.

———. 1901. (125)
Studies of some shade tree and timber destroying fungi. N. Y. (Cornell) Agr. Exp. Sta. Bull. 193, 199-235.
Atwood, W. M. 1922. (126)
Physiological studies of effects of formaldehyde on wheat. Bot. Gaz. 74: 233-263.
Audin, M. 1900. (127)
La chlorose de la vigne dans le Beaujolais. Ann. Soc. Bot., Lyon, 25: 64-69.
Averna-Saccà, R. 1910. (128)
L'acidita dei succhi della piante in rapporto alla resistenza contro gli attachi dei parassiti. Ital. Stat. Sper. Agr. 43: 185-209.
Ayoutantis, A. 1924. (129)
A note on the powdery scab of potato due to Spongospora subterranea. Rev. Path. Vég. et Ent. Agric. 11: 60-66.
Ayyar, C. S. R. 1927. (130)
A bacterial soft rot of garden poppy. Mem. Dept. Agr. India, Bact. Ser. 2: 29-33.
Azzi, G. 1927. (131)
La climat du blé dans le monde: les bases écologiques de la culture mondiale du blé. Impr. Inst. Intern. Agr., Rome.
Babcock, D. C. 1916. (132)
Diseases of forest and shade trees. Ohio Agr. Exp. Sta. Mo. Bull. 1 (10): 291-296.
Bachmann, J. 1895. (133)
Einfluss der äussern Bedingungen auf die Sporenbildung von Thamnidium elegans Link. Bot. Zeit. 53: 107-135.
Backe, R. 1929. (134)
Frost und Pilze. Deutsche Forst-Zeitg. 44 (47): 1218-1219.
Bahgat, M. 1928. (135)
The action of Phomopsis californica in producing a stem-end decay of citrus fruits. Hilgardia 3: 153-181.
Bailey, D. L. 1923. (136)
Sunflower rust. Minn. Agr. Exp. Sta. Tech. Bull. 16, 1-31.
———. 1928. (137)
Report of the Dominion Rust Research Laboratory, Winnipeg, Man. Canada Dept. Agr., Div. Bot. Rept. 1927, 47-54.
Bailey, F. D. 1913. (138)
Blossom-end rot of tomato. Ore. Agr. Exp. Sta., Crop Pest and Hort. Rept. 1911-12, 290.
Bailey, L. H. 1896. (139)
Fruit brevities. N. Y. (Cornell) Agr. Exp. Sta. Bull. 117, 347-396.
Bain, H. F. 1926. (140)
Cranberry disease investigations on the Pacific Coast. U. S. Dept. Agr., Dept. Bull. 1434, 1-27.
Bain, S. M. 1895. (141)
Some experiments with fungicides on peach foliage. Tenn. Agr. Exp. Sta. Bull. 8 (3), 35-40.
———. 1901. (142)
The injury of fungicides to peach foliage. Science 14: 221-222.
———. 1902. (143)
The action of copper on leaves. Tenn. Agr. Exp. Sta. Bull. 15 (2), 17-108.
Baker, F. S. 1929. (144)
Effect of excessively high temperatures on coniferous reproduction. Jour. Forestry 27: 949-975.
Bakke, A. L. 1912. (145)
The late blight of barley (Helminthosporium teres Sacc.). Proc. Iowa Acad. Sci. 19: 93-102.
———. 1913. (146)
The effect of city smoke on vegetation. Iowa Agr. Exp. Sta. Bull. 145, 383-409.
Ball, E. D. 1909. (147)
Is arsenical spraying killing our fruit trees? Jour. Econ. Ent. 2: 142-148.
———, E. G. Titus, and J. E. Greaves. 1910. (148)
The season's work on arsenical poisoning of fruit trees. Jour. Econ. Ent. 3: 187-197.
Ballard, W. S. 1910. (149)
Our knowledge of chlorosis. Proc. Fruit Growers' Conv. Calif. 37: 71-76.
——— and W. H. Volck. 1914. (150)
Apple powdery mildew and its control in the Pajaro Valley. U. S. Dept. Agr., Dept. Bull. 120, 1-26.

———, J. R. Magness, and L. A. Hawkins. 1922. (151)
Internal browning of the Yellow Newton apple. U. S. Dept. Agr., Dept. Bull. 1104, 1-24.
Balls, W. L. 1907. (152)
The physiology of a simple parasite. Khediv. Agr. Soc. Cairo Yrbk. 1906, 91-99.
———. 1908. (153)
Temperature and growth. Ann. Bot. 22: 557-591.
———. 1912. (154)
The cotton plant in Egypt. London.
Balmer, J. A. 1897. (155)
A report on damage to fruit trees caused by the severe freeze of November, 1896. Wash. Agr. Exp. Sta. Bull. 30, 1-30.
Bamberger, M. and J. Nubaum. 1928. (156)
Luftuntersuchungen zur Feststellung von Rauchschäden. Zeitschr. Angew. Chemie 41: 22-26.
Bancroft, C. K. 1910. (157)
Researches on the life history of parasitic fungi. Ann. Bot. 24: 359-372.
Barbut, G. 1894. (158)
Sur le traitement de la chlorose par le procédé Rassiguier. Prog. Agr. et Vitic. 22: 462-465.
Baribeau, B. and H. N. Racicot. 1928. (159)
Studies on diseases caused by Sclerotinia-producing fungi in Quebec. Canada Dept. Agr., Div. Bot., Rept. 1927, 220-222.
Barker, B. T. P. and C. T. Gimingham. 1913. (160)
Wind scorch of apple foliage. Agr. and Hort. Res. Sta., Bristol Univ., Ann. Rept., 67-68.
——— et al. 1922. (161)
Leaf scorch on fruit trees. Agr. and Hort. Res. Sta., Bristol Univ., Ann. Rept. 1921, 77-121.
Barnette, R. M. 1923. (162)
The influence of soluble aluminum salts on the growth of wheat seedlings in Shive's R_1C_1 solution. N. J. Agr. Exp. Sta. Ann. Rept. 44, 255-258.
Barre, H. W. 1909. (163)
Cotton anthracnose investigation. S. C. Agr. Exp. Sta. Ann. Rept. 22, 89-118.
———. 1916. (164)
Report of the botanist and plant pathologist. S. C. Agr. Exp. Sta. Ann. Rept. 29, 16-20.
Barrett, J. T. 1922. (165)
Notes on bacterial gummosis of stone fruits. Phytopath. 12: 103-104.
——— and H. S. Fawcett. 1922. (166)
Withertip, tear-stain and control of brown rot. Calif. Citrogr. 7: 232, 233, 254.
Barrus, M. F. 1921. (167)
Bean anthracnose. N. Y. (Cornell) Agr. Exp. Sta. Mem. 42, 97-209.
Barss, H. P. 1921. (168)
Physiological disorders of developing fruits. Ore. Agr. Exp. Sta., Crop Pest and Hort. Rept. 3, 159-166.
———. 1922. (169)
Take-all disease of cereals. Ore. Agr. Exp. Sta. Bien. Rept. 1920-22, 72-73.
———. 1922. (170)
Factors inducing calyx spray injury. Better Fruit 16 (6): 7, 24.
Bartholomew, E T. 1913. (171)
Black heart of potatoes. Phytopath. 3: 180-182.
———. 1915. (172)
A pathological and physiological study of the black heart of potato tubers. Centbl. Bakt. 43: 609-639.
———. 1922. (173)
Bearing of water relation to internal decline of lemons. Calif. Citrogr. 7: 126, 128-129.
———. 1923. (174)
Internal decline of lemons II. Amer. Jour. Bot. 10: 117-126.
———. 1923. (175)
Alternaria rot of lemons. Calif. Citrogr. 8: 262, 293-294.
———. 1925. (176)
Report on internal decline (Endoxerosis) of lemons. Calif. Citrogr. 10: 274, 294, 308.
———, J. T. Barrett, and H. S. Fawcett. 1923. (177)
Internal decline of lemons. I. Amer. Jour. Bot. 10: 67-70.
Bartholomew, L. K. and E. S. Jones. 1923. (178)
Relation of certain soil factors to the infection of oats by loose smut. Jour. Agr. Res. 24: 569-575.

Bartlett, F. A. 1924. (179)
Smoke injury to trees. Tree Talk 5: 21.
Barton, L. V. and S. F. Trelease. 1927. (180)
Stimulation, toxicity, and antagonism of calcium nitrate and manganese chloride as indicated by growth of wheat roots. Bull. Torrey Bot. Club 54: 559-577.
Bartram, H. E. 1916. (182)
Effect of natural low temperature on certain fungi and bacteria. Jour Agr. Res. 5: 651-655.
Bary, A. de. 1860. (183)
La formation de zoöspores. Ann. Sci. Nat. Bot. 13: 236-251.
————. 1863. (184)
Recherches sur le développement de quelques champignons parasites. Ann. Sci. Nat. Bot. (4 ser.) 20: 5-148.
————. 1886. (184a)
Ueber einige Sclerotinien und Sclerotinienkrankheiten. Bot. Zeit. 44: 377-387, 393-404, 409-426, 433-441, 449-461, 465-474.
Bastin, S. L. 1920. (185)
Does cold kill plants? Sci. Amer. 123: 427.
Batchelor, L. D. 1922. (186)
Winter injury to young walnut trees during 1921-1922. Calif. Agr. Exp. Sta. Circ. 234, 1-5.
————. 1922. (187)
Winter injury to young walnut trees during 1921-22. Calif. Dept. Agr. Mo. Bull. 11, 445-449.
———— and H. S. Reed. 1919. (188)
Winter injury or die-back of the walnut. Calif. Agr. Exp. Sta Circ. 216, 1-20.
Bates, C. G. and J. Roeser. 1924. (189)
Relative resistance of tree seedlings to excessive heat. U. S. Dept. Agr., Dept. Bull. 1263, 1-16.
Battail, J. 1928. (190)
Contribution aux recherches sur le court-noué. Proc. Agr. et Vitic. 89: 600-602.
Baumann, A. 1885. (191)
Das Verhalten von Zinksalzen gegen Pflanzen und im Boden. Landw. Vers. Sta. 31: 1-53.
Bavendamm, W. 1928. (192)
Neue Untersuchungen über die Lebensbedingungen holzzerstörender Pilze. Ein Beitrag zur Frage der Krankheitsempfänglichkeit unserer Holzpflanzen Gasversuche. Centbl. Bakt. 75: 426-452, 503-533.
Beach, S. A. 1895. (193)
Spraying pear and apple orchards in 1894. N. Y. (Geneva) Agr. Exp. Sta. Bull. 84, 1-36.
————. 1897. (194)
Wood ashes and apple scab. N. Y. (Geneva) Agr. Exp. Sta. Bull. 140, 663-690.
———— and V. A. Clark. 1904. (195)
New York apples in storage. N. Y. (Geneva) Agr. Exp. Sta. Bull. 248, 83-152.
———— and L. L. Van Slyke. 1892. (196)
Influence of copper compounds in soils upon vegetation. N. Y. (Geneva) Agr. Exp. Sta. Bull. 41, 35-43.
Beach, W. S. 1921. (197)
The lettuce "drop" due to Sclerotinia minor. Pa. Agr. Exp. Sta. Bull. 165, 1-27.
————. 1922. (198)
The crown rot of rhubarb caused by Phytophthora cactorum. Pa. Agr. Exp. Sta. Bull. 174, 1-28.
Beal, J. A. 1926. (199)
Frost killed oak. Jour. Forestry 24: 949-950.
Beauverie, J. 1921. (200)
Zur l'adaptation xérophile des Euphorbes parasitées par des rouilles. Compt. Rend. Soc. Biol. (Paris) 84: 401-403.
————. 1923. (201)
On the development of wheat rusts in relation to climatic conditions. Intern. Conf. Phytopath. and Econ. Ent. Holland Rept., 202-203. (Abst.).
————. 1923. (202)
Sur les rapports existant entre le développement des rouilles du Blé et le climât. Compt. Rend. Acad. Sci. (Paris) 176: 529-531.

———————. 1923. (203)
La rouille jaune de Blé (Puccinia glumarum). Compt. Rend. Acad. Sci. (Paris) 177: 969-971.
———————. 1924. (204)
Sur la germination des urédospores des rouilles du Blé. Compt. Rend. Acad. Sci. (Paris) 179: 993-996.
Beeley, F. 1930. (204a)
Notes on recent observations on Oidium heveae. Quart. Jour. Rubber Res. Inst. Malay 2: 182-183.
Beijerinck, M. W. 1899. (205)
Über ein Contagium vivum fluidum als Ursache der Fleckenkrankheit des Tabaksblätter. Centbl. Bakt. 5: 27-33.
Bellair, G. 1896. (206)
La chlorose des arbres fruitiers. Rev. Hort. 68: 110-111.
Belyea, H. C. 1925. (207)
Wind and exposure as limiting factors in the establishment of forest plantations. Ecology 6: 238-240.
——————— and H. J. MacAloney. 1926. (208)
Weather injury to terminal buds of Scotch pine and other conifers. Jour. Forestry 24: 685-690.
Benedict, D. M. 1929. (209)
A greenhouse study of the conidial stroma of Epichloe typhina. Mich. Acad. Sci. 9: 47-54.
Benedict, R. C. 1916. (210)
Snow injury to trees. Torreya 16: 71.
Benes, G. 1928. (211)
Le court noué. Prog. Agr. et Vitic. 89: 524-529.
———————. 1928. (212)
De l'influence que peut exercer l'acide phosphorique sur la résistance des plantes au mildiou. Prog. Agr. et Vitic. 90: 80-81.
Benincasa, M. 1902. (213)
Ricerche sui mezzi per difendere i somenzai di tabacco dal "marciume radicale" causato dalla Thielavia basicola Zopf. Bol. Tecnic Coltiv. Tabacchi 1: 24-33.
Bennett, C. W. 1921. (214)
A phoma root rot of celery. Mich. Agr. Exp. Sta. Tech. Bull. 53, 1-40.
———————. 1926. (215)
Arsenical injury to peach. Mich. Agr. Exp. Sta. Quart. Bull. 8: 183-185.
Bennett, F. T. 1928. (216)
On Dematium pullulans De B. and its ascigerous stage. Ann. Appl. Biol. 15: 371-391.
Bennett, J. P. and E. T. Bartholomew. 1924. (217)
The respiration of potato tubers in relation to the occurrence of blackheart. Calif. Agr. Exp. Sta. Tech. Paper 14, 1-35.
Benoist, J. and P. Bailly. 1922. (218)
Moyens de combattre le piétin des céréales. La Vie Agr. et Rurale 11: 266-268.
Bensaude, M. 1926. (219)
Diseases of economic plants in the Azores. Kew Bull. Misc. Inform. (9), 381-389.
———————. 1929. (220)
Note sur le Phytophthora, parasite des Citrus au Portugal. Compt. Rend. Soc. Biol. (Paris) 101: 982-984.
——————— and G. W. Keitt. 1928. (221)
Comparative studies of certain Cladosporium diseases of stone fruits. Phytopath. 18: 313-329.
Berger, A. 1924. (222)
Kranke Pflanzenbestände—saure Böden. Illus. Landw. Zeit. 44: 257.
Bergman, H. F. 1921. (223)
The effect of cloudiness on the oxygen content of water and its significance in cranberry culture. Amer. Jour. Bot. 8: 50-58.
Bergman, H. T. 1920. (224)
The relation of aeration to the growth and activity of roots and its influence on the ecesis of plants in swamps. Ann. Bot. 34: 13-33.
Berkeley, G. H. 1924. (225)
Studies on Botrytis. Trans. Roy. Canadian Inst. 15: 83-127.

———. 1929. (226)
Report of the Dominion Field Laboratory of Plant Pathology, St. Catharines, Ontario. Rept. Dominion Botanist, Div. Bot., Canada Dept. Agr., 1928, 119-130.
Bernard, C. 1924. (227)
Wortelzielsten bij thee en rubber. De Thee 5: 75-79.
Bernbeck, O. 1911. (228)
Der Wind als pflanzenpathologischer Faktor. Diss. Bonn. 1907 and Bot. Jahrb. Engler 45: 471-482.
Berridge, E. M. 1924. (229)
The influence of hydrogen-ion concentration on the growth of certain bacterial plant parasites and saprophytes. Ann. Appl. Biol. 11: 73-85.
Bewley, W. F. 1921. (231)
"Damping off" and "foot rot" of tomato seedlings. Ann. Appl. Biol. 7: 156-172.
———. 1922. (232)
"Sleepy disease" of the tomato. Ann. Appl. Biol. 9: 116-134.
———. 1923. (233)
"Sleepy disease" of the tomato. Jour. Min. Agr. Great Britain 30: 450-457.
———. 1929. (234)
The effect of environmental conditions on plant diseases under glass. Ann. Appl. Biol. 16: 190-192.
——— and W. Corbett. 1927. (235)
"Mosaic" disease of the tomato. Exp. and Res. Sta, Cheshunt, Herts., Ann. Rept. 13, 51-59.
——— and H. L. White. 1926. (236)
Some nutritional disorders of the tomato. Ann. Appl. Biol. 13: 323-338.
Bews, J. W. and R. D. Aitken. 1922. (237)
The measurement of the hydrogen ion concentration in South African soils in relation to plant distribution and other ecological problems. So. African Jour. Sci. 19: 196-206.
Biewenga, E. 1929. (238)
Kaligehalt und die "Blaufleckigheit" der Kartoffeln. Ernähr. d. Pflanze 25: 468. (Abst.).
Biffin, R. H. 1912. (239)
Studies on the inheritance of disease resistance. II. Jour. Agr. Sci 4: 421-429.
———. 1913 (240)
Investigations on the control of disease in plants. Jour. Roy. Hort. Soc., London, 39 (2): 313-323.
Bijl, P. A. Van der. 1916. (241)
"Wilt" or "crown-rot" disease of carnations caused by Fusarium sp. Ann. Appl Biol. 2: 267-290.
Bioletti, F. T. 1896. (242)
Sunstroke of the vine. Rept. Calif. Vitic. Work. 1887-1895, 450-451.
Bird, M. 1925. (243)
Soil hygiene in its relation to cane "disease". Intern. Sugar Jour. 27: 423-424, 536-537.
Birmingham, W. A. 1924. (244)
A "shrivel" condition of grape berries. Agr. Gaz. N. S. Wales 35: 669-671.
———. 1926. (245)
Frost blister of vegetables. Agr. Gaz. N. S. Wales 37: 319-322.
Bisby, G. R. 1919. (246)
Studies on Fusarium diseases of potatoes and truck crops in Minnesota. Minn. Agr. Exp. Sta. Bull. 181, 1-58.
Blackman, F. F. 1909. (247)
Vegetation and frost. New Phytol. 8: 354-363.
Blackman, V. H. 1924. (248)
Physiological aspects of parasitism. Nature 114: 231-232.
———. 1925. (249)
Physiological aspects of parasitism. Brit. Assoc. Adv. Sci. Rept. 92: 233-246.
Blackwell, C. P. and G. H. Collings. 1920. (250)
Trona potash: A progress report. S. C. Agr. Exp. Sta. Bull. 202, 1-24.
Blain, W. H. 1927. (251)
Pecan scab and its control by means of sprays. Ala. Agr. Exp. Sta. Ann. Rept. 38, 17-18.
Blair, A. W. and B. E. Brown. 1921. (252)
The influence of fertilizers containing borax on the yield of potatoes and corn.—Season 1920. Soil Sci. 11: 369-383.

———— and A. L. Prince. 1923. (253)
Studies on the toxic properties of soils. Soil Sci. 15: 109-129.
———— and ————. 1927. (254)
The relation of soil reaction to active aluminum. Soil Sci. 24: 205-213.
Blake, M. A. 1918. (255)
Winter injury to fruit trees in New Jersey. Proc. Amer. Soc. Hort. Sci. 15: 24-25.
————. 1918. (256)
Winter injury to fruit trees. Proc. N. J. State Hort. Soc. 44: 106-110.
———— and A. J. Farley. 1910. (257)
Stem rot of carnations. N. J. Agr. Exp. Sta. Ann. Rept. 31, 78-81.
————, M. T. Cook, and C. H. Connors. 1921. (258)
Recent studies on peach yellows and little peach. N. J. Agr. Exp. Sta. Bull. 356, 1-62.
Blakeslee, A. F. and C. D. Jarvis. 1913. (259)
Common injuries to shade trees. Injuries caused by gas and smoke. Trees in Winter, 124-125.
Blaringhem, L. 1912. (260)
Observations sur la rouille des Guimauves (Puccinia malvacearum Mont.). Bull. Soc. Bot. France 59: 765-773.
————. 1923. (261)
Variabilité de la sporulation de la rouille des Charobns. I. Notes sur la biologie des rouille et des Guimauves (Puccinia malvacearum Mont.) sur les plantes vertes et sur les plantes panachées de Lavatera arborea L. Rev. Path. Vég. et Ent. Agri. 10: 172-182.
Blattny, C. and F. Duchon. 1928. (262)
Beitrag zur Frage der Düngung des Hopfens als Mittel gegen die Hopfenperonospora (Pseudoperonospora humuli). Ernähr. d. Pflanze 24: 140-142.
Blochwitz, A. 1930. (263)
Standorte und geographische Verbreitung der Schimmelpilze. Ann. Mycol. 28: 241-268.
Blodgett, F. H. 1916. (264)
Relation between storm and disease, August and September 1915, in Texas. Phytopath. 6: 100-101. (Abst.).
————. 1918. (265)
Weather conditions and crop diseases in Texas. Mem. Torrey Bot. Club 17: 74-78.
Blumer, J. C. 1908. (266)
Some effects of frost in the Southwest. Torreya 8 (2): 25-26.
Blumer, S. 1927. (267)
Ueber den Einfluss äusserer Faktoren auf die Entwicklung der Mehltaupilze. Mitt. Natur. Gesell. Bern. 27: 27-28.
Bobko, E. W. et al. 1925. (268)
Zur Frage über die schädliche Wirkung höher Kalkgaben. Zeitschr. Pflanzenernähr. u. Düng. 6: 128-168.
———— and R. A. Papowa. 1929. (269)
Beiträge zur Frage über die Dürre und Kälteresistenz der Pflanzen. Zeitschr. Pflanzenernähr. u. Düng. 14: 24-37.
Bodine, E. W. and L. W. Durrell. 1930. (270)
Inoculation of wheat with Tilletia levis (Kühn). Phytopath. 20: 663-668.
Bodnár, J. 1914. (271)
Biochemische Untersuchung der Wurzelfäule der Zuckerrübe. Bot. Centbl. 126: 644. (Abst.).
Böhm, J. 1874. (272)
Ueber die Einwirkung des Leuchtgases auf die Pflanzen. Bot. Zeit. 32: 74-75.
————. 1881. (273)
Ueber die Ursache des Absterbens der Götterbäume und über die Methode der Neubepflanzung der Ringstrasse in Wien. Wien.
Boijeau, A. 1914. (274)
Le piétin du blé. Prog. Agr. et Vitic. 61: 242-247.
Bois, D. 1917. (275)
Dégâts causés par le froid dans le Midi de la France. Soc. Path. Vég. France Bull. 4: 50-51.
Bolhuis, G. G. 1929. (276)
Kalidüngung und Nachtfrostgefahr. Ernähr. d. Pflanze 25: 586.
Bolle, P. C. 1930. (277)
Different forms of top rot. Proc. Internat. Soc. Sugar Cane Technologists, 3rd Cong., 146-155.

Bolley, H. L. 1889. (278)
Wheat rust. Ind. Agr. Exp. Sta. Bull. 26, 1-19.
————. 1890. (279)
Potato scab: a bacterial disease. Agr. Sci. 4: 277-287.
————. 1899. (280)
Smut of cereals. N. D. Agr. Exp. Sta. Ann. Rept. 9, 24-28.
————. 1904. (281)
Cause of wheat rust, its method of attack, conditions favorable to infection and rust development; and what to do. N. D. Agr. Exp. Sta. Press Bull. 20, 1-7.
————. 1907. (282)
Plans for procuring disease resistant crops. Proc. Soc. Prom. Agr. Sci. 28: 107-114.
————. 1909. (283)
Some results and observations noted in breeding cereals in a specially prepared disease garden. Proc. Amer. Breed. Assoc. 5: 177-182.
———— and F. J. Pritchard. 1906. (284)
Rust problems. N. D. Agr. Exp. Sta. Bull. 68, 605-672.
Bonar, L. 1920. (285)
Wilt of white clover, due to Brachysporium trifolii. Phytopath. 10: 435-441.
————. 1924. (286)
Studies on the biology of Brachysporium trifolii. Amer. Jour. Bot. 11: 123-158.
Boncquet, P. A. 1916. (287)
Presence of nitrites and ammonia in diseased plants. Its significance with regard to crop rotation and soil depletion. Jour. Amer. Chem. Soc. 38: 2572-2576.
————. 1917. (287a)
A bacterial organism found associated with curly top of the sugar beet. Phytopath. 7: 269-289.
————. 1922. (288)
Progress report on June drop of oranges. Citrus Leaves 2 (10): 12, 15-17.
Bonde, R. 1929. (289)
Physiological strains of Alternaria solani. Phytopath. 19: 533-548.
Böning, K. 1926. (290)
Beobachtungen über Vegetations-schäden durch Teerdämpfe. Forsch. Gebiet. Pflanzenkr. u. Immun. im Pflanzenreich 2: 79-88.
Bonns, W. W. 1911. (291)
Orchard spraying problems and experiments: A review of, and a contribution to previous data. Me. Agr. Exp. Sta. Bull. 189, 31-80.
————. 1912. (292)
Orchard spraying experiments. Me. Agr. Exp. Sta. Bull. 198, 1-32.
Boodle, L. A. 1920. (293)
The scorching of foliage by sea-winds. Jour. Min. Agr. Great Britian 27: 479-486.
Börner, M., E. Haselhoff, and J. König. 1892. (294)
Ueber die Schädlichkeit von Sodastaub u. Ammoniakgas auf die Vegetation. Landw. Jahrb. 21: 407-425.
————, ————, and ————. 1893. (295)
Über die Schädlichkeit von Sodastaub und Ammoniakgas auf die Vegetation. Zeitschr. Pflanzenkr. 3: 98-100. (Abst.).
Borthwick, A. W. 1909. (296)
Frost canker of Picea sitchensis. Roy. Bot. Gard., Edinb., 29: 263-265.
————. 1928. (297)
Frost damage to young coniferous trees. Scottish Forestry Jour. 42: 63-68.
Boshart, K. 1926. (298)
Beobachtungen über Pfefferminzrost. Heilund Gewürzpfl. 9: 24-30.
Botjes, J. O. 1926. (299)
The blue discoloration of potatoes. (Trans. title). Tijdschr. o. Plantenziekten 33: 57-96.
————. 1929. (300)
Iets over het verband tusschen hét "blauw" van de Aardappelknollen en kaligebrek. Tijdschr. o. Plantenziekten 35: 5-8.
Bower, P. H. et al. 1930. (301)
Purification and certain properties of the virus of typical tomato mosaic. Phytopath. 20: 943-950.
Bowles, E. A. 1919. (302)
The effect of the frosts of the winter of 1916-17 on vegetation. Jour. Roy. Hort. Soc. 43: 388-461.

Boyce, J. S. 1926. (303)
Observations on white pine blister rust in Great Britian and Denmark. Jour. Forestry 24: 893-896.
Boyd, O. C. 1930. (304)
A bacterial disease of the tung-oil tree. Phytopath. 20: 756-758.
Boyle, C., M. Murphy, and H. A. Cummins. 1928. (305)
"Blossom-wilt" of apple trees and "wither-tip" of plum trees, with special reference to two biologic forms of Monilia cinerea Bon. Sci. Proc. Roy Dublin Soc. n. s. 19: 63-76.
Braak, C. 1928. (306)
Voorspelling van de aardappelziekte in verband met meteorologischer factoren. Landb. Tijdschr. 40: 628-630.
Bradford, F. C. 1922. (307)
Winter injury of fruit in Missouri. Mo. Agr. Exp. Sta. Circ. 107, 1-7.
———— and H. A. Cardinell. 1922. (308)
Observations on winter injury. Mo. Agr. Exp. Sta. Res. Bull. 56, 1-26.
———— and ————. 1926. (309)
Eighty winters in Michigan orchards. Mich. Agr. Exp. Sta. Spec. Bull. 149, 1-103.
Brandes, E. W. 1918. (310)
Anthracnose of lettuce caused by Marssonina panattoniana. Jour. Agr. Res. 13: 261-280.
————. 1919. (311)
Banana wilt. Phytopath. 9: 339-389.
Bratley, C. O. 1930. (312)
Notes on flooding injury to strawberries. Phytopath. 20: 685-686.
Braun, H. 1924. (313)
Geranium stemrot caused by Pythium complectens, n. sp. Jour. Agr. Res. 29: 399-419.
Braun, K. 1914. (314)
Beiträge zur Kenntnis der Blattflecken an Sisalagaven. Pflanzen 10: 188-197.
Breazeale, J. F. and J. A. LeClerk. 1912. (315)
The growth of wheat seedlings as affected by acid or alkaline conditions. U. S. Dept. Agr., Bur. Chem. Bull. 149, 1-18.
Breckenbridge, J. E. 1921. (316)
Boron in relation to the fertilizer industry. Jour. Ind. and Eng. Chem. 13: 324-325.
Brefeld, O. 1888. (317)
Neue Untersuchungen ueber Brandpilze und die Brandkrankheiten II. Nachtr. Klub. Landw., Berlin, 1577-1584, 1588-1594, 1597-1701.
————. 1895. (318)
Infectionen mit Flugbrandconidien auf Hafer und Gerste. Untersuchungen Gesammtgebiete Mykologie 11: 23-42.
Brega, C. 1927. (319)
The influence of seeding time on the development of cereal rusts. (Trans. title). Riv. Patol. Veg. 17: 153-156.
Bremer, H. 1923. (320)
Untersuchungen über Biologie und Bekämpfung des Erregers der Kohlhernie, Plasmodiophora brassicae Woronin. Landw. Jahrb. 59: 227-243.
————. 1924. (321)
Das auftreten der Schorfkrankheit am Apfelbaum Fusicladium dendriticum (Wallr.) Fuck. in seinen Beziehungen zum Wetter. Angew. Bot. 6: 77-97.
————. 1924. (322)
Wissenwertes aus der Arbeit in- und ausländischer Versuchsstationen und Institute IV, Apfelschorfjahre und Wetter. Deut. Obst- u. Gemüsebau Zeit. 70: 96-97.
————. 1924. (333)
Untersuchungen über Biologie und Bekämpfung des Erregers der Kohlhernie, Plasmodiophora brassicae Woronin. II. Kohlhernie und Bodenazidität. Landw. Jahrb. 60: 673-685.
————. 1926. (334)
Ausbaumoglichkeiten in der Pflanzenschutzstatistik. (Beispiel: Die Bezeihungen des Apfelfusikladiums zum Wetter.). Nachrichtenbl. Deut. Pflanzenschutzdienst 6: 1-2, 12-13.
Brenchley, W. E. 1910. (335)
The influence of copper sulphate and manganese sulfate upon the growth of barley. Ann. Bot. 24: 571-583.
————. 1914. (336)
On the action of certain compounds of zinc, arsenic and boron on the growth of plants. Ann. Bot. 28: 283-301.

———. 1914. (337)
Inorganic plant poisons and stimulants. Cambridge.
——— and H. G. Thornton. 1925. (338)
The relation between the development, structure and functioning of the nodules on Vicia faba as influenced by the presence or absence of boron in the nutrient medium. Proc. Roy. Soc., London, 98B: 373-400.
——— and K. Warington. 1927. (339)
The rôle of boron in the growth of plants. Ann. Bot. 41: 167-187.
Brentzel, W. E. 1923. (340)
Disease of flax caused by a species of Rhizoctonia. Phytopath. 13: 53. (Abst.).
———. 1926. (341)
The pasmo disease of flax. Jour. Agr. Res. 32: 25-37.
Brewer, P. H. and R. H. Carr. 1927. (342)
Fertility of a soil as related to the forms of its iron and manganese. Soil Sci. 23: 165-173.
——— et al. 1929. (343)
Purification and certain properties of the tomato mosaic virus. Phytopath. 19: 108. (Abst.).
——— et al. 1930. (344)
Purification and certain properties of the virus of typical tomato mosaic. Phytopath. 20: 943-950.
Briem, H. 1905. (345)
Wurzelbrandentdeckung und kein Ende. Blät. Zuckerrübenbau 12: 164-166.
Brierley, P. 1928. (346)
Pathogenicity of Bacillus mesentericus, B. aroideae, B. carotovorus, and B. phytophthorus on potato tubers. Phytopath. 18: 819-837.
Briggs, L. J. 1908. (347)
The field treatment of tobacco root-rot. U. S. Dept. Agr., Bur. Pl. Ind., Circ. 7, 1-8.
———, C. A. Jensen, and J. W. McLane. 1916. (348)
Mottle-leaf of citrus trees in relation to soil conditions. Jour. Agr. Res. 6: 721-739.
———, ———, and ———. 1917. (349)
The mulched-basin system of irrigated citrus culture and its bearing on the control of mottle-leaf. U. S. Dept. Agr., Dept. Bull. 499, 1-31.
Brisley, H. R. 1923. (350)
Studies on the blight of cucurbits caused by Macrosporium cucumerinum E. and E. Phytopath. 13: 199-204.
Briton-Jones, H. R. 1920. (351)
The rusts and smuts of wheat, barley, and oats. Egypt Min. Agr. Tech. and Sci. Serv. Bull. 15, 1-16.
———. 1928. (352)
Wilt disease of coconut palms in Trinidad I. Trop. Agric. 5 (May Suppl.): 1-12.
———. 1929. (353)
Wilt diseases of coconut palms in Trinidad II. Trop. Agric. 6 (12): 1-12.
Brittlebank, C. C. 1912. (354)
Eruptive disease, or "Exanthema" of orange trees in Australia. Jour. Dept. Agr. Victoria 10: 401-404.
———. 1914. (355)
Plane tree leaf scorch. Jour. Dept. Agr. Victoria 12: 335-336.
———. 1919. (356)
Green manurial crops and "take all". Jour. Dept. Agr. Victoria 17: 171-174.
Britton, E. G. 1904. (357)
The effect of illuminating gas on trees and shrubs. Torreya 4: 172-173.
Britton, W. E. 1896. (358)
Blight, burn or scald of tomato plants. Conn. Agr. Exp. Sta. Ann. Rept. 20, 232-234.
———. 1928. (359)
Oil sprays and oil injury. Jour. Econ. Ent. 21: 418-421.
Brizi, U. 1903. (360)
Sulle alterazioni prodotte alle piante coltivate dalle principali emanazioni gasose degli Stabilimenti industriali. Staz. Sper. Agr. Ital. 36: 279-384.
———. 1905. (361)
Ricerche sulla malatti del detta "brusone". Ann. Inst. Agr., Ponti, 5: 79-85.
Broadfoot, W. C. 1926. (362)
Studies on the parasitism of Fusarium lini Bolley. Phytopath. 16: 951-978.

Brock, A. A. 1929. (363)
Oil spray damage to citrus. Calif. St. Dept. Agr. Mo. Bull. 18 (10): 571-572.
Brongniart, A. 1845. (364)
Action des sels de fer sur la végétation. Rev. Hort. 291-298.
Brooks, A. N. 1926. (365)
Studies on the epidemiology and control of fireblight of apple. Phytopath. 16: 665-696.
Brooks, C. 1906. (366)
Temperature and toxic action. Bot. Gaz. 42: 359-375.
———. 1908. (367)
Pine blight. N. H. Agr. Exp. Sta. Ann. Rept. 29, 370-371.
———. 1908. (368)
The fruit spot of apples. Bull. Torrey Bot. Club 35: 423-456.
———. 1909. (369)
Some apple diseases. N. H. Agr. Exp. Sta. Bull. 144, 107-138.
———. 1914. (370)
Blossom-end rot of tomatoes. Phytopath. 4: 345-373.
——— and J. S. Cooley. 1916. (371)
Apple scald. Phytopath. 6: 110-111. (Abst.).
——— and ———. 1916. (372)
Temperature relations of apple rot fungi. Phytopath. 6: 111. (Abst.).
——— and ———. 1917. (373)
Temperature relations of apple rot fungi. Phytopath. 7: 76. (Abst.).
——— and ———. 1917. (374)
Temperature relations of apple-rot fungi. Jour. Agr. Res 8: 139-163.
——— and ——— 1917. (375)
Effect of temperature, aeration and humidity on Jonathan-spot and scald of apples in storage. Jour. Agr. Res. 11: 287-317.
——— and ———. 1918. (376)
Air movement as a factor in the prevention of apple scald. Phytopath. 8: 69. (Abst.).
——— and ———. 1921. (377)
Temperature relations of stone fruit fungi. Jour. Agr. Res. 22: 451-465.
——— and ———. 1928. (378)
Time-temperature relations in different types of peach-rot infection. Jour. Agr. Res. 37: 507-543.
———, ———, and D. F. Fisher. 1919. (379)
Apple-scald. Jour. Agr. Res. 16: 195-217.
———, ———, and ———. 1920. (380)
Diseases of apples in storage. U. S. Dept. Agr., Farmers' Bull. 1160, 1-24.
———, ———, and ———. 1923. (381)
Apple scald and its control. U. S. Dept. Agr., Farmers' Bull. 1380, 1-16.
——— and D. F. Fisher. 1916. (382)
Spot diseases of the apple causing much general confusion. Better Fruit 10 (8): 13-15.
——— and ———. 1918. (383)
Irrigation experiments on apple-spot diseases. Jour. Agr. Res. 12: 109-137.
——— and ———. 1924. (384)
Prune and cherry brown-rot investigations in the Pacific Northwest. U. S. Dept. Agr., Dept. Bull. 1252, 1-21.
——— and ———. 1926. (385)
Water-core of apples. Jour. Agr. Res. 32: 223-260.
Brooks, F. T. 1908. (386)
Observations on the biology of Botrytis cinerea. Ann. Bot. 22: 479-487.
———. 1921. (387)
The inheritance of disease resistance in plants. Trans. Brit. Mycol. Soc. 7: 71-78.
———. 1924. (388)
Epidemic plant diseases. Trans. Brit. Mycol. Soc. 9: 229-239.
———. 1928. (389)
Disease resistance in plants. New Phytol. 27: 85-97.
Brown, A. M. and M. Newton. 1928. (390)
The dwarf leaf rust of barley in western Canada. (Puccinia anomala Rostr.). Phytopath. 18: 481. (Abst.).
Brown, B. E. 1922. (391)
Effect of borax in fertilizer on the growth and yield of potatoes. U. S. Dept. Agr., Dept. Bull. 998, 1-8.

———. 1930. (392)
Note regarding a possible influence of soil reaction on development of powdery mildew on cowpeas. Phytopath. 20: 683-685.
Brown, E. 1927. (393)
Effect of shade on apple scab. Gardeners' Chron. 81: 305-306.
Brown, H. D. 1921. (394)
Sweet pea bud drop. Florists' Exch. 51: 545.
Brown, J. G. 1928. (395)
The influence of alkali in soils on the prevalence of angular leaf-spot in Pima-Egyptian cotton. Univ. Chicago Sci. Ser. 4: 259-261.
———. 1928. (396)
The influence of sodium chloride in alkali soils on the susceptibility of Pima cotton to angular leaf-spot caused by Phytomonas malvacera Phytopath. 18: 951. (Abst.).
Brown, N. A. 1913. (397)
A bacterium causing a disease of sugar-beet and nasturtium leaves. Jour. Agr. Res. 1: 188-210.
———. 1915. (398)
A bacterial disease of lettuce. Jour. Agr. Res. 4: 475-478.
———. 1918. (399)
Some bacterial diseases of lettuce. Jour. Agr. Res. 13: 367-388.
———. 1923. (400)
Bacterial leaf spot of geranium in the eastern United States. Jour. Agr. Res. 23: 361-372.
———. 1928. (401)
Bacterial pocket disease of the sugar beet. Jour. Agr. Res. 37: 155 168
Brown, S. M. 1927. (402)
The effect of boron on citrus trees. Citrus Leaves 7 (7): 21-23.
Brown, W. 1922. (403)
On the germination and growth of fungi at various temperatures and in various concentrations of oxygen and of carbon dioxide. Ann. Bot. 36: 257-283.
Brown, W. S. 1915-1920. (404)
The December freeze—some lessons from it. Ore. Agr. Exp. Sta, Crop Pest and Hort. Rept. 3: 9-14.
Bruck, W. F. 1906. (405)
Zur Frage der Windbeschädigungen an Blättern. Beih. Bot. Centbl. II Abt. 20: 67-75
Bruderlin, J. 1917. (406)
Le Rhizopus maydis, n. sp. Bull. Soc. Bot. Genève, Ser. 2, 9: 108-112.
Bruyn, H. De. 1926. (407)
Waarnemingen over de vatbaarheid von het loof van de Aardappelplant voor de Aardappelziekte. Tijdschr. Plantenzeikten 32: 1-29.
———. 1926. (408)
The overwintering of Phytophthora infestans (Mont) DeBy. Phytopath. 16: 121-140.
Bryan, M. K. 1915. (409)
A nasturtium wilt caused by Bacterium solanacearum. Jour. Agr. Res. 4: 451-457.
———. 1921. (410)
A bacterial bud rot of cannas. Jour. Agr. Res. 21: 143-152.
———. 1924. (411)
Bacterial leafspot of Delphinium. Jour. Agr. Res. 28: 261-269.
———. 1928. (412)
Lilac blight in the United States. Jour. Agr. Res. 36: 225-235.
———. 1929. (413)
The relation of moisture to stomatal infection. Phytopath. 19: 750.
———. 1930. (414)
Bacterial leaf spot of squash. Jour. Agr. Res. 40: 385-391.
———. 1930. (415)
Studies on bacterial canker of tomato. Jour. Agr. Res. 41: 825-851.
——— and O. C. Boyd. 1930. (416)
Control of bacterial canker of tomatoes. Phytopath. 20: 127. (Abst.).
——— and F. P. McWhorter. 1930. (417)
Bacterial blight of poppy caused by Bacterium papavericola, sp. nov. Jour. Agr. Res. 40: 1-9.

Bryan, O. C. 1929. (418)
The stimulating effect of external applications of copper and manganese on certain chlorotic plants of the Florida Everglades soil. Jour. Amer. Soc. Agron. 21: 923-933.
Bryce, A. 1923. (419)
The toxicity of lime to Fomes lignosus Klotzsch. Dept. Agr. Ceylon Bull. 64, 1-17.
Bubák, F. 1902. (420)
Über eisenfleckige Kartoffeln. Zeitschr. Landw. Versuchw. Oesterr. 5: 396-398.
Buchet, S. 1913. (421)
Sur la transmission des Rouilles en général et du Puccinia malvacearum en particulier. Bull. Soc. Bot. France 60: 520-524, 558-565.
Buchheim, A. 1928. (422)
Biologisch-morphologische Untersuchungen an Erysiphaceen. Ber. Deutsch. Bot. Ges. 46: 167-180.
Bucholski. 1926. (423)
Beobachtungen über die befallstärke des gelbrostes (Puccinia glumarum) bei winterweizen. Pflanzenbau, Berlin, 3 (7): 106-107.
Buck, F. S. 1918. (424)
Winter injury to ornamental trees and shrubs. Pomol. and Fruit Growers' Soc., Quebec, Ann. Rept. 47-53.
Buckhout, W. A. 1900. (425)
The effect of smoke and gas upon vegetation. Pa. Dept. Agr. Rept. 1900 (1), 164-192.
————. 1901. (426)
The effect of smoke and gas upon vegetation. Pa. Agr. Exp. Sta. Ann. Rept. 1900-01, 297-324.
Buddin, W. and E. M. Wakefield. 1924. (427)
Some observations on the growth of Rhizoctonia crocorum (Pers.) D. C. in pure culture. Ann. Appl. Biol. 11: 292-309.
Buffum, B. C. 1896. (428)
Alkali: Some observations and experiments. Wyo. Agr. Exp. Sta. Bull. 29, 219-253.
Burger, O. F. 1926. (429)
Report of the plant pathologist. Fla. Agr. Exp. Sta. Ann. Rept. 68-83.
————. 1927. (430)
Report of the plant pathologist. Fla. Agr. Exp. Sta. Ann. Rept. 62-77.
————, E. F. DeBusk, and W. R. Briggs. 1923. (431)
Preliminary report on controlling melanose. Fla. Agr. Exp. Sta. Bull. 167, 123-140.
Burgess, P. S. and F. R. Pember. 1923. (432)
"Active" aluminum as a factor detrimental to crop production in many acid soils. R. I. Agr. Exp. Sta. Bull. 194, 1-40.
———— and G. G. Pohlman. 1928. (433)
Citrus chlorosis as affected by irrigation and fertilizer treatments. Ariz. Agr. Exp. Sta. Bull. 124, 183-232.
Burk, H. 1923. (434)
Zur Steinbrandbekämpfung des Weizens. Zeitschr. Pflanzenkr. 33: 193-240.
Burke, E. 1924. (435)
Orchard injury from water-logged soils. Mont. Agr. Exp. Sta. Ann. Rept. 30, 27.
———— et al. 1928. (436)
Overcoming yellowing of apple tree leaves. Mont. Agr. Exp. Sta. Ann. Rept. 34, 90.
Burkholder, W. H. 1920. (437)
The effect of two soil temperatures on the yield and water relations of healthy and diseased bean plants. Ecology 1: 113-123.
————. 1924. (438)
The effect of varying soil moisture on healthy bean plants and on those infected by a root parasite. Ecology 5: 179-187.
————. 1926. (439)
A new bacterial disease of the bean. Phytopath. 16: 915-927.
Burrill, T. J. and J. T. Barrett. 1909. (440)
Ear rots of corn. Ill. Agr. Exp. Sta. Bull. 133, 63-109.
Burroughs, A. M. 1923. (441)
Effects of oil sprays on fruit trees. Proc. Amer. Soc. Hort. Sci. 20: 269-277.
Busquet, A. 1928. (442)
Sur le court-noué. Prog. Agr. et Vitic. 89: 354-357.
Butler, E. J. 1905. (443)
The bearing of Mendelism on the susceptibility of wheat to rust. Jour. Agr. Sci. 1: 361-363.

———. 1906. (444)
Fungus diseases of sugar-cane in Bengal. Mem. Dept. Agr. India, Bot. Ser. 1 (3): 1-53.
———. 1918. (445)
Immunity and disease in plants. Agr. Jour. India (Special Indian Sci. Cong. Number) 13: 10-82.
———. 1918. (446)
Fungi and disease in plants. Calcutta.
———. 1923. (447)
The effect of climate on cereal diseases. Pan-Pacific Sci. Cong. Proc. 1 (4): 126-131.
———. 1925. (448)
Las condiciones meteorológicas y los enfermedades de las plantas. Bol. Agr. Téc. y Econ. 17: 361-378.
———. 1925. (449)
Meteorological conditions and plant diseases. Intern. Rev. Sci. and Pract. Agr. n. s. 3: 369-384.
———. 1928. (450)
Report on some diseases of tea and tobacco in Nyasaland. Dept. Agr. Nyasaland 1-30.
——— and J. M. Hayman. 1906. (451)
Indian wheat rusts. Mem. Dept. Agr. India, Bact. Ser. 1 (2): 1-52.
Butler, L. F. 1930. (452)
Corticium centrifugum, a heterothallic pathogene of apples. Jour. Agr. Res. 41: 269-294.
Butler, O. 1905. (453)
Observations on some vine diseases in Sonoma County, California. Calif. Agr. Exp. Sta. Bull. 168, 1-29.
———. 1911. (454)
A study on gummosis of prunus and citrus, with observations on Squamosis and Exanthema of the Citrus. Ann. Bot. 25: 107-153.
———. 1928. (455)
When do fungicides damage plants? N. H. Agr. Exp. Sta. Bull. 232, 10.
———. 1930. (456)
Agricultural experiments 1929. N. H. Agr. Exp. Sta. Bull. 250, 1-31.
——— and R. R. Jenkins. 1930. (457)
Effect on plants of cyanide fumigation following spraying with bordeaux mixture. Phytopath. 20: 419-429.
Butters, F. K. and C. O. Rosendahl. 1911. (458)
Some effects of severe frost upon vegetation in a condition of active growth. Minn. Bot. Studies 4 (2): 153-159.
Cadoret, A. 1917. (459)
Les pluies et le mildiou. Prog. Agr. et Vitic. 67: 588-589.
———. 1927. (460)
Contribution à l'étude des traitements contre le mildiou. Determination des époques d'attagues du champignon. Prog. Agr. et Vitic. 87: 362-365.
———. 1927. (461)
Les grandes pluies d'août et la bouille bleue. Prog. Agr. et Vitic. 88: 231-232.
Caesar, L. 1913. (462)
Pear blight, little peach, yellows, apple scab, winter injury. Ont. Agr. Col. and Exp. Farm Ann. Rept. 39, 29-31.
———. 1925. (463)
Spray injury in Ontario in 1924. Canadian Hort. 48: 5.
Cahill, V. 1929. (464)
Experiments for the control of exanthema in Japanese plum trees. Jour. Dept. Agr. W. Aust., Ser. 2, 6: 388-393.
Calvino, E. M. de. 1925. (465)
Effects of a hail storm on sugar cane and other cultivated plants. La Planter 74: 450-451.
Cameron, C. A. 1874. (466)
The influence of chemical exhalations on agriculture. Gardeners' Chron. 1: 274-275.
Cameron, F. K. and J. F. Breazeale. 1904. (467)
The toxic action of acids and salts on seedlings. Jour. Phys. Chem. 8: 1-13.
Camp, A. F. 1927. (468)
Splitting of oranges. Fla. Agr. Exp. Sta. Ann. Rept. 50-52.
Campanile, G. 1924. (469)
Ricerche sopra le condizioni di attacco e di sviluppo di Helminthosporium allii su Aglio. Staz. Sper. Agr. Ital. 57: 413-428.

———. 1926. (470)
Sulle septoriosi del Sedano. Boll. R. Staz. Pat. Veg. 6: 44-71.
Campanini, L. 1926. (471)
Un nuovo parrassita del frumento? Coltivatore 72: 146-148.
Campbell, A. G. 1905. (472)
Constitutional diseases of fruit trees. Jour. Dept. Agr. Victoria 3: 463-465.
Cannon, W. A. 1921. (473)
Root-growth in relation to a deficiency of oxygen or an excess of carbon dioxide in the soil. Carnegie Inst., Washington, Yrbk. 20: 48-51.
———. 1923. (474)
The influence of the temperature of the soil on the relation of roots to oxygen. Science 58: 331-332.
———. 1924. (475)
A note on the relation of root growth in the soil to the oxygen supply: The growth ratio. Ecology 5: 319-321.
———. 1925. (476)
On the upper critical concentration of oxygen in root growth. Science 61: 118-120.
——— and E. E. Free. 1917. (477)
The ecological significance of soil aeration. Science 45: 178-180.
——— and ———. 1925. (478)
Physiological features of roots, with especial reference to the relation of roots to aeration of the soil. Carnegie Inst., Washington, Publ. 368: 1-168.
Capus, J. 1915. (479)
Des avertissements contre le mildiou. Rev. Vitic. 42: 461-463.
———. 1916. (480)
L'evolution et le traitement du mildiou. Compt. Rend. Acad. Agr. France 2: 619-621 (Abst.).
———. 1917. (481)
Instruction pratique sur le traitement du mildiou dans le Sud-Ouest. Prog. Agr. et Vitic. 38: 444-445.
———. 1918. (482)
Note sur le développement de quelques maladies des plantes pendant le sécheresse. Bull. Soc. Path. Végét. France 5: 94-96 and Rev. Vitic. 49: 82-83.
———. 1919. (483)
Action des gaz de poudrerie sur les végétaux. Bull. Soc. Path. Végét. France 6: 85-88.
———. 1924. (484)
La sécheresse et la vigne. Rev. Vitic. 60: 54.
Card, F. W. 1895. (485)
Apple-scab in Nebraska. Garden and Forest 8: 28.
Cardiff, I. D. 1915. (486)
Winter desiccation of fruit trees. Wash. Agr. Exp Sta. Ann. Rept. 25, 38-39.
Carleton, M. A. 1893. (487)
Studies on the biology of the Uredineae. I. Notes on germination. Bot. Gaz. 18: 446-456.
———. 1905. (488)
Lessons from the grain rust epidemic of 1904. U. S. Dept. Agr., Farmers' Bull. 219, 1-24.
Carne, W. M. 1924. (489)
Citrus diseases. Brown rot and leaf blight. Jour. Dept. Agr. W. Aust. 1: 519-522.
———. 1924-25. (490)
A preliminary census of the plant diseases of southwest Australia. Jour. Roy. Soc. W. Aust. 11: 43-68.
———. 1925. (491)
A brown rot of citrus in Australia (Phytophthora hibernalis n. sp.). Jour. Roy. Soc. W. Aust. 12: 13-41.
———. 1925. (492)
Cracking and russeting of Dunn's and other apples. Jour. Dept. Agr. W. Aust. 2: 214.
———. 1926. (493)
Black spot or blossom-end rot of tomatoes. Jour. Dept. Agr. W. Aust. 3: 21-22.
———. 1926. (494)
Exanthema (A die-back of orange trees). Jour. Dept. Agr. W. Aust. 3: 59-62.
———. 1927. (494a)
A preliminary note on a theory as to the origin of bitter pit in apples. Jour. Dept. Agr. W. Aust. 4: 382-385.

———. 1927. (495)
Grey speck disease of wheat and oats (known as white wilt in Western Australia). Jour. Dept. Agr. W. Aust. 4: 515-519.
———. 1928. (496)
Crinkle of oranges. Jour. Dept. Agr. W. Aust. 5: 292-293.
———, H. A. Pittman, and H. G. Elliott. 1929. (497)
Studies concerning the so-called bitter-pit of apples in Australia; with special reference to the variety Cleopatra. Australia Council Sci. and Indus. Res. Bull. 41, 1-88.
———, ———, and ———. 1930. (498)
Notes on wastage of non-parasitic origin in stored apples. Jour. Aust. Council Sci. and Indus. Res. 3: 167-182.
Carpenter, C. W. 1915. (498a)
Some potato tuber-rots caused by species of Fusarium. Jour. Agr. Res. 5: 183-209.
———. 1928. (499)
Conditions favoring Pythium development. Hawaiian Planters' Rec. 32: 394.
———. 1928. (500)
Notes on Pythium root rot. Hawaiian Planters' Rec. 32: 461-474.
Carr, R. H. 1919. (501)
Vegetative growth in soils containing crude petroleum. Soil Sci. 8: 67-68.
——— and P. H. Brewer. 1923. (502)
Manganese, aluminum, and iron ratio as related to soil toxicity. Jour. Ind. and Engin. Chem. 15: 634-637.
——— and H. G. Havercamp. 1924. (503)
Modifications of plant growth and ash content as affected by acids added to soils. Jour. Amer. Soc. Agron. 16: 278-283.
Carrick, D. B. 1927. (504)
Storage scald of apples. Proc. N. Y. State Hort. Assoc., 152-155.
Carsner, E. 1918. (505)
Angular-leafspot of cucumbers: dissemination, overwintering and control. Jour. Agr. Res. 15: 201-220.
———. 1926. (506)
Seasonal and regional variations in curly-top of sugar beets. Science 63: 213-214.
——— and C. F. Stahl. 1924. (507)
Studies on curly-top disease of the sugar beet. Jour. Agr. Res. 28: 297-319.
Carter, C. N. 1915. (508)
A powdery mildew on citrus. Phytopath. 5: 193-196.
Carter, W. 1927. (509)
Ecological studies of curly-top of sugar beets. Phytopath. 17: 747. (Abst.).
———. 1929. (510)
Ecological studies of curly top of sugar beets. Phytopath. 19: 467-477.
Cartwright, K. 1926. (511)
On the nature of the resistance of the potato to wart disease. Ann. Bot. 40: 391-395.
———. 1930. (512)
A decay of Sitka spruce timber, caused by Trametes serialis Fr. A cultural study of the fungus. Dept. Sci. and Indus. Res, U. S. Forest Products Lab., Res. Bull. 4, 1-26.
Caspar, R. 1926. (513)
Ueber den Einfluss äusserer Faktoren auf den Steinbrandbefall des Weizens. Kuhn Arch. 12: 205-256.
Castella, F. de and C. C. Brittebank. 1917. (514)
Notes on downy mildew (Plasmopora viticola). Jour. Dept. Agr. Victoria 15: 685-700.
Castle, R. L. 1898 and 1899. (515)
Chlorosis in fruit trees. Gardeners' Chron. 25: 405 and 26: 4.
Catalano, G. 1929. (516)
La concentrazione degli H-ioni nella patologia vegetale. Boll. Studi e. Infor. R. Giard Colon., Palermo, 10: 13-43.
Catlin, C. N. 1919. (517)
Cotton tolerance to alkali in the field. Ariz. Agr. Exp. Sta. Ann. Rept. 30, 408-409.
Cauthen, E. F. 1916. (518)
Wilt resistant varieties of cotton. Ala. Agr. Exp. Sta. Bull. 189, 67-88.
Cavadas, D. S. 1924. (519)
Le wildfire dans les plantations de Tabac de Thrace et de Macédoine. Rev. Path. Vég. et Ent. Agric. 11: 236-242.
Cayley, D. M. 1917. (520)

Bacterial disease of Pisum sativum. Jour. Agr. Sci. 8: 461-479.
Cazeaux-Cazalet, G. 1898. (521)
Le black rot: Ses rapports avec la température et la végétation de la vigne traitements opportuns. Rev. Vitic. 8: 173-233, 201-208, 229-233.
Cercelet, M. 1906. (522)
La chlorose et son traitement. Rev. Vitic. 26: 493-495.
Chambers, W. H. 1925. (523)
The growth, hydrogen-ion concentration, sugar fermentation, and surface tension of cultures of Pseudomonas tumefaciens and Pseudomonas campestris. Jour. Cancer Res. 9: 254-278.
Chandler, W. H. 1913. (524)
The killing of plant tissue by low temperature. Mo. Agr. Exp. Sta. Res. Bull. 8, 141-309.
————. 1915. (525)
Some peculiar forms of winter injury in New York State during the winter of 1914-15. Proc. Amer. Soc. Hort. Sci. 12: 118-121.
————. 1918. (526)
Winter injury in New York State during 1917-18. Proc. Amer. Soc. Hort Sci. 15: 18-24.
Chapman, G. H. 1908. (527)
Investigations relating to mosaic disease. Mass. Agr. Exp. Sta. Ann. Rept. 20, 136-150.
————. 1911. (528)
Abnormalities of stump growths. Mass. Agr. Exp. Sta. Ann. Rept. 23 (1), 149-160.
————. 1916. (529)
Effect of colored light on the mosaic disease of tobacco. Science 43: 537-538.
————. 1917. (530)
Mosaic disease of tobacco. Mass. Agr. Exp. Sta. Bull. 175, 73-117.
Chappaz, G. 1924. (531)
Le court-noué. Prog. Agr. et Vitic. 81: 469-474.
Chardón, C. E. and R. A. Toro. 1927. (532)
Plant disease notes from the central Andes. Phytopath. 17: 147-153.
Chatin, A. 1845. (533)
Études de physiologie végétale faites au moyen de l'acide arsénieux. Compt. Rend. Acad. Sci. (Paris) 20: 21-29.
Chaudhuri, H. 1923. (534)
A study of the growth in culture of Verticillium albo-atrum B. et Br. Ann. Bot. 37: 519-539.
————. 1924. (535)
A description of Colletotrichum biologicum, nov. sp., and observations on the occurrence of a saltation in the species. Ann. Bot. 38: 735-744.
Cheema, G. S. and S. S. Bhat. 1929. ((536)
The die-back disease of citrus trees and its relation to the soils of Western India (with examples of successful preventive and remedial treatment). Bombay Dept. Agr. Bull. 55 (1928), 1-48.
Chester, F. D. 1902. (537)
Sundry notes on plant diseases. Del. Agr. Exp. Sta Bull. 57, 1-16.
Chih, T. 1930. (538)
Physiologic specialization in Fusarium spp. causing headblight of small grains. Minn. Agr. Exp. Sta. Tech. Bull. 74, 1-27.
Childs, L. 1917. (539)
New facts regarding the period of ascospore discharge of the apple-scab fungus. Ore. Agr. Exp. Sta. Bull. 143, 1-11.
Chivers, A. H. 1917. (540)
The injurious effects of tarvia fumes on vegetation. Phytopath. 7: 32-36.
————. 1929. (541)
A comparative study of Sclerotinia minor Jagger and Sclerotinia intermedia Ramsey in culture. Phytopath. 19: 301-309.
Chodat, F. 1924. (542)
La concentration en ions hydrogène du sol et son importance pour la constitution des formations végétales. Diss. Genève.
Christ, H. 1911. (543)
Die Vegetation unter dem Einfluss des trockenen Sommers 1911 nördlichen Jura. Ber Schweiz. Bot. Gesell. 20: 254-258.
Christensen, J. J. 1926. (544)
Physiologic specialization and parasitism of Helminthosporium sativum. Minn. Agr. Exp. Sta. Tech. Bull. 37, 1-101.

———. 1926. (545)
The relation of soil temperature and soil moisture to the development of head smut of sorghum. Phytopath. 16: 353-357.
Christoff, A. 1930. (546)
The Pleospora disease of cultivated poppy. (Russian, English summary). Gov't Printing Office, Sofia.
Christopher, W. N. and C. W. Edgerton. 1930. (547)
Bacterial stripe diseases of sugarcane in Louisiana. Jour. Agr. Res. 41: 259-267.
Chuard, E. and F. Porchet. 1902. (548)
L'action des sels de cuivre sur le végétaux. Arch Sci. Phys. Genève 14: 502-505.
Chupp, C 1917. (549)
Studies on clubroot of cruciferous plants. N. Y. (Cornell) Agr. Exp. Sta. Bull. 387, 509-544.
———. 1925. (550)
Manual of vegetable-garden diseases. New York.
———. 1928. (551)
Club root in relation to soil alkalinity. Phytopath. 18: 301-306.
———. 1930. (552)
The effects of potash and phosphorus on tip burn and mildew of cabbage. Phytopath. 20: 307-318.
Ciferri, R. 1922. (553)
La chlorosi della vite. Rev. Agr., Parma, 27: 321-323.
———. 1928. (554)
Preliminary observations on sugar cane mycorrhizae and their relationship to root diseases. Phytopath. 18: 249-261.
Clara, F. M. 1928. (555)
A Phytophthora disease of santol seedlings. Philippine Jour. Sci. 35 (4): 411-427.
———. 1930. (556)
A new bacterial leaf disease of tobacco in the Philippines. Phytopath. 20: 691-706.
Clark, J. F. 1899. (557)
Electrolytic dissociation and its toxic effect. Jour. Phys. Chem. 3: 263-316.
———. 1899. (558)
On the toxic effects of deleterious agents on the germination and development of certain filamentous fungi. Bot. Gaz. 28: 378-404.
———. 1902. (559)
On the toxic properties of some copper compounds with special reference to Bordeaux mixture. Bot. Gaz. 33: 26-48.
Clausen. 1904. (560)
Resultate von Obstbaum-düngungen. Landw. Jahrb. 33: 939-960.
———. 1925. (561)
Haferkrankheiten nichtparasitärer Natur. Illus. Landw. Zeit. 45: 143.
———. 1930. (562)
Reaktionen des Hafers auf die Säurengrade im Boden. Deutsche Landw. Presse 57: 506.
Clausen, H. 1910. (563)
Die Dörrfleckenkrankheit des Hafers. Mitt. Deut. Landw. Ges. 25: 631-639.
Claussen, P. 1913. (564)
Über die Wirkung des Teers, insbesondere geteerter Strassen auf den Pflanzenwuchs. Arb. K. Biol. Anst. Land- u. Forstw. 8: 493-514.
Clayton, E. E. 1920. (565)
The relation of soil temperature to the development of the tomato Fusarium wilt. Phytopath. 10: 63-64. (Abst.).
———. 1921. (566)
Weather conditions in relation to the development of plant disease epidemics. Ohio State Hort. Soc. Ann. Rept. 54, 44-45.
———. 1922. (567)
Diplodia zeae as an ear and root parasite of corn. Phytopath. 12: 29. (Abst.).
———. 1923. (568)
The relation of temperature to the Fusarium wilt of the tomato. Amer. Jour. Bot. 10: 71-88.
———. 1923. (569)
The relation of soil moisture to the Fusarium wilt of the tomato. Amer. Jour. Bot. 10: 133-147.

———. 1927. (570)
Black-leg disease of brussels sprouts, cabbage and cauliflower. N. Y. (Geneva) Agr. Exp. Sta. Bull. 550, 1-27.
———. 1927. (571)
Diplodia ear-rot diseases of corn. Jour. Agr. Res. 34: 357-371.
———. 1928. (572)
Seed treatment for black-leg disease of crucifers. N. Y. (Geneva) Agr. Exp. Sta. Tech. Bull. 137, 1-58.
———. 1929. (573)
Studies of the black-rot or blight disease of cauliflower. N. Y. (Geneva) Agr. Exp. Sta. Bull. 576, 1-44.
———. 1930. (574)
A study of the mosaic disease of crucifers. Jour. Agr. Res. 40: 263-270.
Clement, F. M. 1913. (575)
Winter injury in orchards. Quebec Soc. Prot. Plants Ann. Rept. 5, 24-26.
Clements, F. E. 1920. (576)
Plant indicators: The relation of plant communities to process and practice. Carnegie Inst. (Wash.) Publ. 290, 1-388.
———. 1921. (577)
Aeration and air-content; the rôle of oxygen in root activity. Carnegie Inst. (Wash.) Publ. 315, 1-183.
Clevenger, J. F. 1913. (578)
The effect of the soot in smoke on vegetation. Mellon Inst. Indus. Res., Smoke Invest. Bull. 7.
Clinton, G. P. 1900. (579)
The smuts of Illinois' agricultural plants. Ill. Agr. Exp. Sta. Bull. 57, 289-360.
———. 1904. (580)
Downy mildew, or blight, Peronoplasmopara cubensis (B. and C.) Clint., of muskmelons and cucumbers. Conn. Agr. Exp. Sta. Ann. Rept. 28, 329-362.
———. 1904. (581)
Downy mildew, or blight. Phytophthora infestans (Mont) DeBy., of potatoes. Conn. Agr. Exp. Sta. Ann. Rept. 28, 363-384.
———. 1905. (582)
Report of the Botanist. Conn. Agr. Exp. Sta. Ann. Rept. 29, 263-330.
———. 1907-1908. (583)
Report of the Botanist for 1908. Conn. Agr. Exp. Sta. Ann. Rept. 31 and 32, 849-907.
———. 1914. (584)
Report of the Botanist for 1913. Conn. Agr. Exp. Sta. Ann. Rept. 38, Pt. I, 1-42.
———. 1914. (585)
Chlorosis of plants with special reference to calico of tobacco. Conn. Agr. Exp. Sta. Ann. Rept. 38, Pt. I, 357-424.
——— and W. E. Britton. 1911. (586)
Tests of summer sprays on apples, peaches, etc. Conn. Agr. Exp. Sta. Ann. Rept. 35, 347-406.
——— and F. A. McCormick. 1922. (587)
Wildfire of tobacco in Connecticut. Conn. Agr. Exp. Sta. Bull. 239, 365-423.
Cobb, N. A. 1891. (588)
Water core in apples. Agr. Gaz. N. S. Wales 2: 286-287.
———. 1892. (589)
Contributions to an economic knowledge of the Australian rusts (Uredineae). Agr. Gaz. N. S. Wales 3: 44-68, 181-212.
———. 1896. (590)
The hot-air treatment of bunt or stinking smut of wheat. Agr. Gaz. N. S. Wales 7: 82-83.
Codding, G. M. 1924. (591)
Frost cracks. Tree Talk 6 (1): 5-6.
———. 1924. (592)
Defoliation of shade trees due to heat. Tree Talk 6 (2): 25-26.
Coeper, F. M. 1919. (593)
Bacterial blight of soybean. Jour. Agr. Res. 18: 179-193.
Coffman, F. A., W. H. Tisdale, and J. F. Brandon. (594)
Observations on corn smut at Akron, Colorado. Jour. Amer. Soc. Agron. 18: 403-411.
Coit, J. E. and R. W. Hodgson. 1916. (595)
The cause of June drop of navel oranges. Univ. Calif. Jour. Agr. 4: 8-10, 27-29.

——— and ———. 1918. (596)
The June drop of Washington navel oranges. Calif. Agr. Exp. Sta. Bull. 290, 203-212.
——— and ———. 1919. (597)
An investigation of the abnormal shedding of young fruits of the Washington navel orange. Univ. Calif. Publ. Agr. Sci. 3: 283-368.
Coleman, D. A. 1916. (598)
Environmental factors influencing the activity of soil fungi. Soil Sci. 2: 1-65.
Colley, R. H. and C. T. Rumbold. 1930. (599)
Relation between moisture content and blue stain in loblolly pine. Jour. Agr. Res. 41: 389-399.
Collier, P. 1892. (599a)
Influence of copper compounds in soils upon vegetation. N. Y. (Geneva) Agr. Exp. Sta. Bull. 41, 35-58.
Collings, G. H. 1927. (600)
The influence of boron on the growth of the soy bean plant. Soil Sci. 23: 83-105.
Collins, J. L. 1927. (601)
A low temperature type of albinism in barley. Jour. Heredity 18: 331-334.
Collison, S. E. 1919. (602)
Citrus fertilizer experiments. Fla. Agr. Exp. Sta. Bull. 154, 1-48.
Colville, F. V. 1913. (603)
The agricultural utilization of acid lands by means of acid-tolerant crops. U. S. Dept. Agr., Dept. Bull. 6, 1-13.
Comber, N. M. 1921. (604)
Relation of the hydrogen-ion concentration of the soil to plant distribution. Nature 108: 146-147.
Comes, O. 1912. (605)
Della resistenza dei frumenti alle ruggini Stato attuatle della questione e provvedimenti. Atti R. Ist. Incorrag., Napoli, 64: 418-441.
———. 1914. (606)
Della resistenza dei frumenti alle ruggini ed in generale delle piante alle loro cause Nemiche. Ann. R. Scuola Sup. Agr., Portici, 12: 419-473.
———. 1917. (608)
La Profilassi nella Patologia Vegetale. Atti. R. Ist. Incoragg, Napoli, 68: 1-173.
Conant, G. H. 1927. (609)
Histological studies of resistance in tobacco to Thielavia basicola. Amer. Jour. Bot. 14: 457-480.
Conner, S. D. 1913. (610)
Irish potato scab (Oospora scabies) as affected by fertilizers containing sulphates and chlorids. Proc. Ind. Acad. Sci. 29: 131-137.
———. 1916. (611)
Acid soils and the effect of acid phosphate and other fertilizers upon them. Jour. Ind. and Eng. Chem. 8: 35-40.
———. 1918. (612)
The injurious effect of borax in fertilizers on corn. Proc. Ind. Acad. Sci. 27: 195-199.
———. 1920. (613)
The effect of zinc in soil tests with zinc and galvanized iron pots. Jour. Amer. Soc. Agron. 12: 61-64.
——— and E. N. Fergus. 1920. (614)
Borax in fertilizers. Ind. Agr. Exp. Sta. Bull. 239, 1-15.
——— and C. T. Gregory. 1928. (615)
Excess soluble salts as the cause of vegetable diseases in greenhouses. Proc. Ind. Acad. Sci. 37: 385-390.
——— and O. H. Sears. 1922. (616)
Aluminum salts and acids at varying hydrogen-ion concentrations, in relation to plant growth in water cultures. Soil Sci. 13: 23-41.
Conrad, H. S. 1901. (617)
Fasciation in the sweet potato. Contrib. Bot. Lab. Univ. Pa. 2: 205-215.
Constantineau, J. C. 1906. (618)
Über die Entwicklungsbedingungen der Myxomyceten. Ann. Mycol. 4: 495-540.
Contejean, C. 1875. (619)
Influence du calcaire sur la dispersion des plantes dites calcifuges. Compt. Rend. Acad. Sci. (Paris) 81: 51-52.
Cook, F. C. 1916. (620)
Boron: Its absorption and distribution in plants and its effect on growth. Jour. Agr. Res. 5: 877-890.

———————. 1921. (621)
The absorption of copper from the soil by potato plants. Science 54: 57.
——————— and J. B. Wilson. 1917. (622)
Effect of three annual applications of boron on wheat. Jour. Agr. Res. 10: 591-597.
——————— and ———————. 1918. (623)
Boron: Its effect on crops and its distribution in plants and soil in different parts of the United States. Jour. Agr. Res. 13: 451-470.
Cook, M. T. 1918. (624)
Common diseases of shade and ornamental trees. N. J. Agr. Exp. Sta. Circ. 98, 1-27.
———————. 1920. (625)
Falling foliage. N. J. Agr. Exp. Sta. Ann. Rept. 41, 570-573.
———————. 1921. (626)
Sunburn and tomato fruit rots. Phytopath. 11: 379-380.
———————. 1925. (627)
Chlorosis de la Pina. Rev. Agr. Porto Rico 15: 296-297.
———————. 1926. (628)
The eye-spot disease of sugar cane. Jour. Dept. Agr. Porto Rico 10: 207-227.
———————. 1927. (629)
Studies on Helminthosporium sacchari on sugar cane in Porto Rico. Phytopath. 16: 71. (Abst.).
———————. 1929. (630)
The eye spot disease of sugar cane. Planter and Sugar Manufacturer 83 (6): 101-102.
——————— and J. J. Taubenhaus. 1911. (631)
The relation of parasitic fungi to the contents of the cells of the host plants. (I. The toxicity of tannin.). Del. Agr. Exp. Sta. Bull. 91, 1-67.
——————— and ———————. 1912. (632)
The relation of parasitic fungi to the contents of the cells of the host plant. (II. The toxicity of vegetable acids and the oxidizing enzyme). Del. Agr. Exp. Sta. Bull. 97, 1-50.
——————— and G. W. Wilson. 1915. (633)
The influence of the tannin content of the host plant on Endothia parasitica and related species. Bot. Gaz. 60: 346-361.
Cook, S. A. 1929. (634)
Rind markings of citrus fruits. Jour. Dept. Agr. Victoria 27: 593-596.
Cook, W. R. I. 1927. (635)
The influence of environment on the infection by Ligniera junci. Trans. Brit. Mycol. Soc. 12: 282-290.
Cooley, J. S. 1914. (636)
A study of the physiological relations of Sclerotinia cinerea (Bon.) Schröter. Ann. Mo. Bot. Gard. 1: 291-326.
Coons, G. H. 1912. (637)
Some investigations of the cedar rust fungus, Gymnosporangium juniperi-virginianae. Nebr. Agr. Exp. Sta. Ann. Rept. 25, 215-245.
———————. 1916. (638)
Factors involved in the growth and the pycnidium formation of Plenodomus fuscomaculans. Jour. Agr. Res. 5: 713-769.
———————. 1917. (639)
Relation of weather to epidemics of late blight of potato. Mich. State Bd. Agr., 317-318.
———————. 1921. (640)
Potato scab and type of soil. Mich. Agr. Exp. Sta. Quart. Bull. 3: 132-134.
———————. 1924. (641)
Black root of strawberry. Mich. Agr. Exp. Sta. Quart. Bull. 7: 25-26.
———————. 1924. (642)
Root diseases of the sugar beet. Facts about Sugar 18: 251-253.
——————— and J. E. Kotila. 1923. (643)
Michigan potato diseases. Mich. Agr. Exp. Sta. Spec. Bull. 125, 1-55.
——————— and E. Levin. 1920. (644)
The relation of light to pycnidium formation in the Sphaeropsidales. Rept. Mich. Acad. Sci. 22: 209-213.
———————, D. Stewart, and F. C. Larmer. 1930. (645)
The sugar-beet leaf-spot disease and its control by direct measures. U. S. Dept. Agr. Circ. 115, 1-20.
Cooper, D. C. and C. L. Porter. 1928. (646)
Phytophthora blight of peony. Phytopath. 18: 881-899.

Copeland, E. B. and L. Kahlenberg. 1900. (647)
The influence of the presence of pure metals upon plants. Trans. Wis. Acad. Sci. 12: 454-474.
Corbett, W. 1927. (648)
A wilt disease of the carnation. Gardeners' Chron. 81: 150.
Cordley, A. B. 1900. (649)
Apple-tree anthracnose, a new fungus disease. Ore. Agr. Exp. Sta. Bull. 60, 1-8.
Costa, T. 1928. (650)
Contributo allo studio della "Cercospora beticola" (Sacc.) nella bassa vallata Padana. Nuovo Giorn. Bot. Ital. 35: 25-27.
Costantin, J. 1925. (651)
Un essai sur les pommes de terre montagnardes. Compt. Rend. Acad. Sci. (Paris) 181: 633-636.
————. 1927. (652)
La cure d'altitude, son emploi et son efficacité en pathologie végétale. Essai d'une théorie de ce phénomène. Ann. Sci. Nat. Bot. 9: 299-369.
————. 1927. (653)
Importance économique et agricole des cultures montagnardes tropicales. Compt. Rend. Acad. Sci. (Paris) 184: 1385-1388.
————. 1928. (654)
Notes de pathologie alpestre. Compt. Rend. Acad. Sci. (Paris) 186: 1776-1778.
Coste-Floret, P. 1896. (655)
Rôle du sulphate de fer. Prog. Agr. et Vitic. 26: 434-440, 463-467, 496-504.
————. 1898. (656)
Influence des engrais sur les maladies et accidents de végétation de la vigne. Prog. Agr. et Vitic. 29: 300-308, 363-372.
Cotner, F. B. 1930. (657)
The development of the zoöspores in the Oömycetes at optimum temperatures and the cytology of their active stages. Amer. Jour. Bot. 17: 511-546.
Cotter, R. U. 1930. (658)
Factors affecting the development of the aecial stage of Puccinia graminis. Phytopath. 20: 139. (Abst.).
Cotton, A. D. 1922. (659)
The situation with regard to leaf-curl and mosaic in Britain. Roy. Hort. Soc., London (Intern. Potato Conf. Rept.) 1921, 153-168.
————. 1922. (660)
Report on the occurrence of fungus, bacterial, and allied diseases on crops in England and Wales for the years 1920-1921. Min. Agr. and Fisheries, London, Misc. Publ. 38, 1-104.
Coulson, T. J. 1922. (661)
Winter injury of trees. Jour. Agr. Quebec 26 (5): 63.
Coupin, H. 1898. (662)
Sur la toxicité des sels de cuivre à l'egard des végétaux supérieurs. Compt. Rend. Acad. Sci. (Paris) 127: 400-401.
————. 1900. (663)
Sur la toxicité du chlorure de sodium et de l'eau de mer à l'egard des végétaux. Rev. Gén. Bot. 12: 177-193.
————. 1901. (664)
Contribution à l'etude des substances toxiques pour les plantes. Compt. Rend. Assoc. Franç Sci. 30 (2): 414-415.
————. 1901. (665)
Sur la sensibilite des végétaux supérieures à des doses tres faibles de substances toxiques. Compt. Rend. Acad. Sci. (Paris) 132: 645-647.
————. 1920. (666)
Sur la nocivité de quelques composés du magnésium à l'egard de diverses plantes. Rev. Gén. Bot. 32: 19-43, 78-90.
Coville, F. V. 1911. (667)
The blueberry and its relation to acid soils. Science 33: 903-904.
————. 1923. (668)
The effect of aluminum sulphate on Rhododendron seedlings. Amer. Hort. Soc. Bull. 1, 6.
Cox, H. J. 1910. (669)
Frost and temperature conditions in the cranberry marshes of Wisconsin. U. S. Dept. Agr., Weather Bur. Bull. T.

Crabill, C. H. 1913. (670)
Production of secondary sporidia by Gymnosporangium. Phytopath. 3: 282-284.
————. 1915. (671)
The frog-eye leaf spot of apples. Va. Agr. Exp. Sta. Bull. 209, 1-16.
Craig, J. 1896. (672)
Root killing of fruit trees. Canada Exp. Farms Rept., 147-151.
————. 1896. (673)
Relative hardiness of fruit buds of peaches and plums. Canada Exp. Farms Rept., 153-158.
————. 1900. (674)
Observations and suggestions on the root-killing of fruit trees. Iowa Agr. Exp. Sta. Bull. 44, 177-213.
Cramer, P. J. S. 1910. (675)
The coffee plantations of Tonkin. Philippine Agr. Rev. 3: 94-100.
Crandall, C. S. 1898. (676)
Blight of apple and pear trees. Colo. Agr. Exp. Sta. Bull. 41, 1-14.
————. 1909. (677)
Bordeaux mixture. Ill. Agr. Exp. Sta. Bull. 135, 199-296.
Creydt, B. 1915. (678)
Untersuchungen über die Kalkempfindlichkeit der Lupine und ihre Bekämpfung. Jour. Landw. 63: 125-191.
Cristiani, H. and J. Stoklasa. 1927. (679)
The loss to agriculture caused by factory fumes. Inter. Inst. Agr., Rome, 1-26.
Crocker, W. and L. I. Knight. 1908. (680)
Effect of illuminating gas and ethylene upon flowering carnations. Bot. Gaz. 46: 259-276.
Cromie, G. A. 1914. (681)
An unusual case of electrical injury to street trees. Sci. Amer. Sup. 77 (1985): 36-37.
Cromwell, R. O. 1919. (682)
Fusarium blight of the soy bean and the relation of various factors to infection. Nebr. Agr. Exp. Sta. Res. Bull. 14, 1-43.
————. 1920. (683)
Recent studies on Septoria of wheat. Phytopath. 10: 51. (Abst.).
Crowther, C. and A. G. Ruston. 1911. (684)
The nature, distribution and effects upon vegetation of atmospheric impurities in and near an industrial town. Jour. Agr. Sci. 4: 25-55.
———— and ————. 1915. (685)
The plant as an index of smoke-pollution. Brit. Assoc. Adv. Sci. Rept. 85: 780. (Abst.).
———— and D. W. Steuart. 1913. (686)
The distribution of atmospheric impurities in the neighborhood of an industrial city. Jour. Agr. Sci. 5: 391-408.
———— and ————. 1914. (687)
Further studies of the effects of smoke from towns upon vegetation in the surrounding areas. Jour. Agr. Sci. 6: 395-405.
Crowther, E. M., M. D. Glynne, and W. A. Roach. 1927. (688)
Sulfur treatment of soil and the control of wart disease of potatoes in pot experiments. Ann. Appl. Biol. 14: 422-427.
Crüger. 1923. (689)
Beobachtungen zur sogenannten "Bodensäurekrankheit". Mitt. Deut. Landw. Ges. 38: 553-555.
Crüger, O. 1929. (690)
Fusskrankheit an Weizen, Roggen und Gerste. Angew. Bot. 11: 1-24.
Cummings, M. B. and E. W. Jenkins. 1925. (691)
Hubbard squash in storage (climate of storage rooms and changes in composition). Vt. Agr. Exp. Sta. Bull. 251, 1-35.
Cunningham, G. H. 1920. (692)
Mortality among stone-fruit trees in central Otago. Jour. Agr. New Zeal. 20: 359-364.
————. 1927. (693)
Dry rot of swedes and turnips; its cause and control. Dept. Agr. New Zealand Bull. 133, 1-51.
Curtel, G. 1900. (694)
Recherches expérimentales sur les phénomènes physiologiques accompagnant la chlorose chez la Vigne. Compt. Rend. Acad. Sci. (Paris) 130: 1074-1076.

Curtis, K. M. 1921. (695)
The life-history and cytology of Synchytrium endobioticum (Schilb.) Perc., the cause of wart disease in potato. Phil. Trans. Roy. Soc., London, 210B: 409-478.
Curzi, M. 1929. (696)
Su una ''pseudocarie'' delle cariossidi di Frumeto. Atti. Ist. Bot. R. Univ. di. Pavia, Ser. 4, 1: 151-155.
Dade, H. A. 1927. (697)
''Collar crack'' of cacao Armillaria mellea (Vahl.) Fr. Gold Coast Dept. Agr. Bull. 5, 1-21.
————. 1927. (698)
Economic significance of cacao pod diseases and factors determining their incidence and control. Gold Coast Dept. Agr. Bull. 6, 1-59.
Daingerfield, L. H. 1908. (699)
Damage by frost at Middlebranch, Ohio. U. S. Dept. Agr., Mo. Weather Rev. 36: 173-174.
Dale, E. 1901. (700)
Investigations on the abnormal growths of intumescenses on Hibiscus ventifolius Linn. Trans. Roy. Phil. Soc., London, 194B: 163-182.
————. 1912. (701)
A bacterial disease of potato leaves. Ann. Bot. 26: 133-154.
Daly, P. M. 1925. (702)
A preliminary report on Jonathan breakdown. Sci. Agr. 5: 155-165.
Dana, B. F. 1925. (703)
The Rhizoctonia disease of potatoes. Wash. Agr. Exp. Sta. Bull. 191, 1-78.
Darnell-Smith, G. P. 1914. (704)
Plant diseases in New South Wales, 1913-14. Dept. Agr. N. S. Wales Rept., 32-33.
————. 1914. (705)
Black spot of the tomato. Agr. Gaz. N. S. Wales 25: 1069-1070.
———— and E. MacKinnon. 1914. (706)
Fungus and other diseases of citrus trees. Agr. Gaz. N. S. Wales 25: 945-954.
———— and ————. 1914 and 1915. (707)
Fungus and other diseases of apple trees. Agr. Gaz. N. S. Wales 25: 1037-1044 and 26: 51-57, 105-113.
Dastur, J. F. 1917. (708)
Conditions influencing the distribution of potato blight in India. Agr. Jour. India (Sci. Cong. No.), 90-96.
————. 1921. (709)
Die-back of Chillies (Capsicum spp.) in Bihar. Mem. Dept. Agr. India, Bot. Ser. 9 (5): 127-144.
Dauthenay, H. 1901. (710)
Sur la chlorose des arbres fruitiers en terrain calcaire. Rev. Hort. 73: 50-51.
David. 1897. (711)
Nebel und Erdausdünstungen und ihr Einfluss auf ägyptische Baumwolle. Zeitschr. Pflanzenkr. 7: 143-149.
Davies, R. 1928. (712)
Fruit storage investigations. I. Storage investigations of pineapples in South Africa. So. Africa Dept. Agr. Sci. Bull. 71, 1-27.
Davis, G. C. 1893. (713)
Celery insects. Mich. Agr. Exp. Sta. Bull. 102, 1-52.
Davis, R. J. 1925. (714)
Studies on Ophiobolus graminis Sacc. and the take-all disease of wheat. Jour. Agr. Res. 31: 801-825.
Davis, W. A. 1918. (715)
A study of the indigo soils of Bihar. Indigo Publ. Agr. Res. Inst. Pusa 1: 1-75.
Davis, W. B. 1926. (716)
Physiological investigation of black heart of potato tuber. Bot. Gaz. 81: 323-338.
Davis, W. H. 1923. (717)
Germination of the spores of timothy smut, Ustilago striaeformis (Westd.). Phytopath. 13: 38-39. (Abst.).
————. 1924. (718)
Spore germination of Ustilago striaeformis. Phytopath. 14: 251-266.
Dawson, W. J. 1929. (719)
On the stem rot or wilt disease of carnations. Ann. Appl. Biol. 16: 261-280.

Day, D. 1928. (720)
Some effects on Pisum sativum of a lack of calcium in the nutrient solution. Science 68: 426-427.
————. 1929. (721)
Some effects of calcium deficiency on Pisum sativum. Plant Physiol. 4: 493-506.
Day, P. C. 1911. (722)
The drought of 1910 in the principal spring-wheat growing states. U. S. Dept. Agr., Mo. Weather Rev. 39: 142-143.
————. 1927. (723)
Drought and its effects in the United States. U. S. Dept. Agr. Yrbk., 1926, 314-316.
Day, W. H. 1928. (724)
Frost as a cause of disease in trees. Quart. Jour. Forestry 22: 179-191.
Day, W. R. 1927. (725)
The parasitism of Armillaria mellea in relation to conifers. Quart. Jour. Forestry 21: 9-21.
————. 1928. (726)
Damage by late frost on Douglas Fir, Sitka Spruce, and other conifers. Forestry 2: 19-30.
————. 1929. (727)
Environment and disease. A discussion on the parasitism of Armillaria mellea (Vahl.) Fr. Forestry 3: 94-103.
Dearness, J. B. and G. B. Sanford. 1930. (728)
A new species of Plenodomus. Ann. Mycol. 28: 325-326.
Deatrick, E. P. 1919. (729)
The effect of manganese compounds on soils and plants. N. Y. (Cornell) Agr. Exp. Sta. Mem. 19, 359-402.
Deckenbach, K. N. 1927. (730)
Experiments in the control of the powdery mildews of the Fuller's Teasel and of Cucurbitaceae by means of lime-sulphur and some other substances (Russian). Morbi Plantarum, Leningrad, 16: 172-175.
DeGroene, F. 1930. (730a)
Verschil in toename in het percentage mozaikziekte bij eigenheimers, verbouwd op zware klei en lichte zavelgrond. Tijdschr. Plantenziekten 36: 13-16.
Delacroix, G. 1897. (731)
La "maladie des Châtaigniers" en France. Bull. Soc. Mycol. France 13: 242-252.
————. 1908. (732)
Maladies non-parasitaires des plantes cultivées. Paris.
Delong, G. E. 1929. (733)
The effect of cutting garnet wheat at different stages of maturity and on consecutive dates after the occurrence of frost. Sci. Agr. 9: 566-574.
Demaree, J. B. 1927. (734)
Sand burn of pecan seedlings. Phytopath. 17: 657-661.
———— and J. R. Cole. 1930. (735)
Pecan leaf blotch. Jour. Agr. Res. 40: 777-789.
Dementjew, A. 1903. (736)
Die Chlorose der Pflanzen und Mittel zu ihrer Bekämpfung. Zeitschr. Pflanzenkr. 13: 321-338.
————. 1904. (737)
La chlorose des plantes et les moyens de la combattre. Ann. Sci. Agr. 2: 63-81.
Dengler, A. 1910. (738)
Junifrostschäden an der Kiefer. Zeitschr. Forst. u. Jagdw. 42: 670-674.
DeOng, E. R. 1927. (739)
Petroleum oil sprays for the orchard. Fruits and Gardens 25 (1): 7.
DeOng, E. L., H. Knight, and J. C. Chamberlin. 1927. (740)
A preliminary study of petroleum oil as an insecticide for citrus trees. Hilgardia 2: 351-384.
Detjen, L. R. 1926. (741)
Physiological dropping of fruits. Del. Agr. Exp. Sta. Bull. 143, 1-36.
————. 1929. (742)
Frost injury to apple, plum, and peach. Trans. Penin. Hort. Soc. 18 (5): 23-29.
———— and G. F. Gray. 1928. (743)
Physiological drop of fruits in Delaware. Del. Agr. Exp. Sta. Ann. Rept., Bull. 158, 24-28.

Detmer, W. 1882. (744)
Ueber die Einwirkung verschiedener Gase, insbesondere des Stickstoffoxydulgases auf Pflanzenzellen. Landw. Jahrb. 11: 213-232.
Diakonoff, H. 1910. (745)
Stippigkeit der Apfel. Zeitschr. Pflanzenkr. 20: 482-483. (Abst.).
Dickinson, L. S. 1930. (746)
The effect of air temperature on the pathogenicity of Rhizoctonia solani parasitizing grasses on putting-green turf. Phytopath. 20: 597-608.
Dickson, B. T. 1922. (747)
Studies concerning mosaic diseases. MacDonald College, Quebec, Tech. Bull. 2, 1-125.
————. 1922. (748)
Diseases of the potato. VIII. Physiological diseases. Sci. Agr. 2: 417-419.
————. 1923. (749)
Temperature studies in mosaic diseases. Phytopath. 13: 42. (Abst.).
————. 1923. (750)
Raspberry mosaic and curl. Sci. Agr. 3: 308-310.
————. 1928. (751)
Leaf spot of banana in southern Queensland. Queensland Agr. Jour. 30: 455-457.
————. 1929. (752)
Division of economic botany: Some present activities. Jour. Aust. Council and Indus. Res. 2: 94-97.
Dickson, J. G. 1920. (753)
The relation of soil temperature to Fusarium blight of wheat and corn. U. S. Dept. Agr., Cereal Courier 12: 105-106.
————. 1921. (754)
The influence of soil temperature on the development of the seedling blight of cereals caused by Gibberella saubinetii. Phytopath. 11: 35-36. (Abst.).
————. 1922. (755)
Wheat scab influenced by climate. Wis. Agr. Exp. Sta. Bull. 339, 32-36.
————. 1923. (756)
The influence of soil temperature and moisture on the development of seedling blight of wheat and corn caused by Gibberella saubinetii (Mont.) Sacc. Phytopath. 13: 50. (Abst.).
————. 1923. (757)
Influence of soil temperature and moisture on the development of the seedling-blight of wheat and corn caused by Gibberella saubinetii. Jour. Agr. Res. 23: 837-870.
————. 1924. (758)
Studies on nature of disease resistance in cereals. Wis. Agr. Exp. Sta. Bull. 362, 43-45.
————. 1925. (759)
The relation of plant physiology and chemistry to the study of disease resistance in plants. Jour. Amer. Soc. Agron. 17: 676-695.
————. 1926. (760)
Making weather to order for the study of grain diseases. Wis. Agr. Exp. Sta. Bull. 379, 1-36.
————, S. H. Eckerson, and K. P. Link. 1923. (761)
The nature of resistance to seedling blight of cereals. Proc. Nat. Acad. Sci. 9: 434-439.
———— and J. R. Holbert. 1926. (762)
The influence of temperature upon the metabolism and expression of disease resistance in selfed lines of corn. Jour. Amer. Soc. Agron. 18: 314-322.
———— and ————. 1928. (763)
The relation of temperature to the development of disease in plants. Amer. Nat. 62: 311-333.
———— et al. 1929. (764)
The influence of environment upon predisposition to seedling blight in wheat and corn strains. Phytopath. 29: 79. (Abst.).
Diels, L. 1929. (765)
Die Frostschaden in den botanischen Garten Deutschlands im Winter 1928/29. Ber. Deutsch. Bot. Ges. 47: 603-607.
Dietel, P. 1912-1921. (766)
Versuche über die Keimungsbedingungen der Teleutosporen einiger Uredineen. I, II, III, and IV. Centbl. Bakt. 31: 95-106, 1912; 35: 272-285, 1912; 42: 698-705, 1915; 54: 215-219, 1921.
Dillon-Weston, W. A. R. 1927. (767)
A note on the "bud-rot" of apple trees. Brit. Mycol. Soc. Trans. 12: 170-172.

Dingerkus, R. 1926. (768)
Der Wind als Krankheitsfaktor und Gefahrenquelle im Walde. Illus. Landw. Zeit. 46 (4): 46-48.
Dobson, W. H. 1916. (769)
Leaf-spot on vines. Gardeners' Chron. 59: 267.
Dodge, A. W. 1924. (770)
Storm damaged trees. Tree Talk 5 (4): 7-10.
Doe, F. 1916. (771)
Asphyxiating gas and vegetation. Forest Quart. 14: 748. (Abst.).
Doerell, E. G. 1927. (772)
Betrachtungen zum Gelbrostproblem und zur Bekämpfung des Gelbrostes durch Düngung. Ernahr. Pflanze 23: 49-52.
————. 1929. (773)
Lagerung und Reifeverzögerung bei Gerste durch Phosphorsäuremangel im Boden als Folge von Rauchschäden. Superphosphate 2: 49-50.
Doidge, E. M. 1915. (774)
A bacterial disease of the mango. Bacillus mangiferae n. sp. Ann. Appl. Biol. 2: 1-44.
————. 1915. (775)
The South African mulberry blight Bacterium mori (Boy. and Lamb.) Smith. Ann. Appl. Biol. 2: 113-124.
————. 1916. (776)
The origin and cause of citrus canker in South Africa. Union So. Africa Dept. Agr. Sci. Bull. 8, 1-20.
————. 1917. (777)
A bacterial spot of citrus. Ann. Appl. Biol. 3: 53-80.
————. 1917. (778)
A bacterial blight of pear blossoms occurring in South Africa. Ann. Appl. Biol. 4: 50-74.
————. 1921. (779)
A tomato canker. Ann. Appl. Biol. 7: 407-430.
D'Oliveira, B. 1930. (780)
Podridão rósea do coração das Maçãs. Rev. Agron. 18: (3) 48-63, (4) 9-67.
Dombrovski, N. 1909. (781)
Fungi as a cause of lodging of cereal crops. (Russian). Russ. Jour. Exp. Landw. 10: 558. (Abst.).
Domontowitsch, M. K. 1924. (782)
Acidität der Nährlosung und Chlorose. Jour. Landw. Wiss. Moskau 1: 191-199.
Doolittle, S. P. 1915. (783)
Cucumber scab caused by Cladosporium cucumerinum. Mich. Acad. Sci. Rept. 17: 87-116.
————. 1920. (784)
The mosaic disease of cucurbits. U. S. Dept. Agr., Dept. Bull. 879, 1-69.
————. 1921. (785)
Influence of temperature on the development of mosaic diseases. Phytopath. 11: 46-47. (Abst.).
———— and H. L. Blood. 1930. (786)
Investigations of tomato streak. Phytopath. 20: 134. (Abst.).
Doran, W. L. 1919. (787)
The minimum, optimum and maximum temperatures of spore germination in some Uredinales. Phytopath. 9: 391-402.
————. 1921. (788)
Rust of Antirrhinum. Mass. Agr. Exp. Sta. Bull. 202, 37-66.
————. 1922. (789)
Effect of external and internal factors on the germination of fungus spores. Bull. Torrey Bot. Club 49: 313-340.
————. 1923. (790)
Toxicity studies with some copper fungicides. Phytopath. 13: 532-542.
————. 1925. (791)
Experiments on the control of apple scab and black rot and spray injury in 1924. Mass. Agr. Exp. Sta. Bull. 222, 1-10.
————. 1927. (792)
Relation of the adjustment of soil reaction to black root-rot of tobacco. Science 66: 661-662.

———. 1929. (793)
Effects of soil temperature and reaction on growth of tobacco infected and uninfected with black root rot. Jour. Agr. Res. 39: 853-872.
——— and E. F. Guba. 1928. (794)
Blight and leaf-spot of carrot in Massachusetts. Mass. Agr. Exp. Sta. Bull. 245, 271-278.
Döring, E. 1927. (795)
Ursachen und Heilung der Chlorose. Blumen u. Pflanzenbau 42: 175-177.
Dorogin, G. N. 1915. (796)
Effect of meteorological conditions on the development of plant diseases II. (Russian). Mat. Mikol. i Fitopatol. Ross. 1: (2) 1-9 and (4) 3-6.
Dorsey, C. W. 1906. (797)
Alkali soils of the United States. U. S. Dept. Agr., Bur. Soils Bull. 35, 1-196.
Dorsey, M. J. 1918. (798)
Russet ring on the apple. Minn. Horticulturist 46: 415-416.
——— and J. W. Bushnell. 1920. (799)
The hardiness problem. Proc. Amer. Soc. Hort. Sci. 17: 210-224.
Dosdall, L. 1923. (800)
Factors influencing the pathogenicity of Helminthosporium sativum. Minn. Agr. Exp. Sta. Tech. Bull. 17, 1-47.
Doty, R. E. 1930. (801)
Iron sulphate spray for coral chlorosis. Hawaiian Plant Rec. 34: 79-82.
Douglas, H. F. K. 1916. (802)
Lodging in sugar cane, and its prevention. Arch. Suikerindus. Nederland, Indië, 24: 667-688.
Ducomet, V. 1926. (804)
Le Rhizoctone violet et ses hôtes. Rev. Path. Vég. et Ent. Agr. 13: 33-38.
———. 1927. (805)
Les rouilles du blé au cours de la campagne 1925-1926. Rev. Path. Vég. et Ent. Agr. 14: 39-44.
——— and E. Foëx. 1924. (806)
Observations sur les rouilles des céréales. Jour. Agr. Prat. 88: 130-132.
Dude, M. 1903. (807)
Über den Einfluss des Sauerstoffentzuges auf pflanzliche Organismen. Flora 92: 205-252.
Duff, G. H. 1918. (808)
Some factors affecting the viability of the urediniospores of Cronartium ribicola. Phytopath. 8: 289-292.
Dufrénoy, J. 1918. (809)
Les conditions écologiques du développement des champignons parasites. Etude de géographié botanique. Bull. Soc. Mycol. France 34: 8-26.
Duggar, B. M. 1899. (811)
Peach leaf-curl and notes on the shot-hole effect of peaches and plums. N. Y. (Cornell) Agr. Exp. Sta. Bull. 164, 371-388.
———. 1901. (812)
Physiological studies with reference to the germination of certain fungous spores. Bot. Gaz. 31: 38-66.
———. 1909. (813)
The effects of conditions of growth upon susceptibility to fungus diseases. Trans. Mass. Hort. Soc., 51-66.
———. 1909. (814)
Fungous diseases of plants. Boston.
———. 1911. (815)
Physiological plant pathology. Phytopath. 1: 71-78.
——— and L. H. Bailey. 1897. (815a)
Notes upon celery. N. Y. (Cornell) Agr. Exp. Sta. Bull. 132, 201-230.
Dungan, G. H. 1928. (816)
Effect of hail injury on the development of the corn plant. Jour. Amer. Soc. Agron. 20: 51-54.
Dunn, G. A. 1921. (817)
A comparative study of the two races of Rhizopus nigricans. Physiol. Res. 2: 301-339.
Dunn, M. S. 1926. (818)
Effects of certain acids and their sodium salts upon the growth of Sclerotinia cinerea. Amer. Jour. Bot. 13: 40-58.
Dunnewald, T. J. 1928. (819)
Chlorosis of cottonwood trees. Wyo. Agr. Exp. Sta. Ann. Rept. 38, 140.

Durandard, M. 1912. (820)
Variations de l'optimum de température sous l'influence du milieu chez le Mucor Rouxii. Compt. Rend. Acad. Sci. (Paris) 155: 723-726.
Durrell, L. W. 1917. (821)
Notes on curly dwarf symptoms on Irish potato. Phytopath. 7: 71. (Abst.).
————. 1918. (822)
Factors influencing the uredospore germination of Puccinia coronata. Phytopath. 8: 81-82. (Abst.).
————. 1922. (823)
Diplodia of corn in Iowa. Phytopath. 12: 29. (Abst.).
————. 1923. (824)
Dry rot of corn. Iowa Agr. Exp. Sta. Res. Bull. 77, 343-376.
————. 1925. (825)
Basisporium dry rot of corn. Iowa Agr. Exp. Sta. Res. Bull. 84, 139-160.
————. 1928. (826)
Smuts of Colorado grains. Colo. Agr. Exp. Sta. Bull. 334, 1-24.
Dutton, W. C. 1928. (827)
Some effects of spraying materials on trees and fruit. Quebec Pomol. and Fruit Growing Soc. Ann. Rept. 34, 14-27.
————. 1929. (828)
A method of modifying the lime-sulphur-lead arsenate spray to reduce foliage injury in the apple. Proc. Amer. Soc. Hort. Sci. 25: 332-333.
————. 1930. (829)
Spraying materials and the control of apple scab. Mich. Agr. Exp. Sta. Spec. Bull. 203, 1-32.
————. 1930. (830)
Arsenicals sometimes injure peach trees. Mich. Agr. Exp. Sta. Quart. Bull. 13 (2): 55-56.
———— and H. M. Wells. 1923. (831)
Some physiological effects of bordeaux. Proc. Amer. Soc. Hort. Sci. 20: 277-281.
Earle, F. S. 1899. ((832)
Diseases of cotton. Ala. Agr. Exp. Sta. Bull. 107, 289-330.
————. 1902. (833)
Health and disease in plants. Jour. N. Y. Bot. Gard. 3: 195-202.
Eastham, J. W. 1918. (834)
Report of the provincial plant pathologist. British Columbia Dept. Agr. Ann. Rept. 13, 32-36.
————. 1929. (835)
Report of Provincial Plant Pathologist, Vancouver. British Columbia Dept. Agr. Ann. Rept. 23, 36-40.
Eaton, F. M. 1930. (836)
The effect of boron on powdery mildew and spot blotch of barley. Phytopath. 20: 967-972.
Ebaugh, W. C. 1907. (837)
Gases vs. solids: An investigation of the injurious ingredients of smelter smoke. Jour. Amer. Chem. Soc. 29: 951-970.
Eckerson, S. H. and J. G. Dickson. 1923. (838)
The influence of soil temperature and moisture on the chemical composition of wheat and corn and their predisposition to seedling blight. Phytopath. 13: 50-51. (Abst.).
Eddins, A. H. 1930. (839)
Dry rot of corn caused by Diplodia macrospora Earle. Phytopath. 20: 439-448.
————. 1930. (840)
A new Diplodia ear rot of corn. Phytopath. 20: 733-742.
Eden, T. 1925. (841)
Soil acidity and plant growth. Garden 89: 175-176.
Edgerton, C. W. 1908. (842)
The physiology and development of some anthracnoses. Bot. Gaz. 45: 367-407.
————. 1910. (843)
The bean anthracnose. La. Agr. Exp. Sta. Bull. 119, 1-54.
————. 1915. (844)
Effect of temperature on Glomerella. Science 41: 174. (Abst.).
————. 1915. (845)
Effect of temperature on Glomerella. Phytopath. 5: 247-259.

———. 1917. (846)
Department of plant pathology. La. Agr. Exp. Sta. Ann. Rept. 30, 14-15.
———. 1918. (847)
A study of wilt resistance in the seed-bed. Phytopath. 8: 5-14.
———. 1921. (848)
Onion diseases and onion seed production. La. Agr. Exp. Sta. Bull. 182, 1-20.
——— and C. C. Moreland. 1913. (849)
The bean blight and preservation and treatment of bean seed. La. Agr. Exp. Sta. Bull. 139, 1-43.
——— and ———. 1920. (850)
Tomato wilt. La. Agr. Exp. Sta. Bull. 174, 1-54.
——— and ———. 1921. (851)
Eggplant blight. La. Agr. Exp. Sta. Bull. 178, 1-44.
——— and E. C. Tims. 1927. (852)
Investigations on the sugar cane disease situation in 1925 and 1926. La. Agr. Exp. Sta. Bull. 197, 1-50.
Edson, A. W. 1903. (853)
The black rot of the grape in North Carolina and its treatment. N. C. Agr. Exp. Sta. Bull. 185, 133-156.
Edson, H. A. 1915. (854)
Seedling diseases of sugar beets and their relation to root-rot and crown-rot. Jour. Agr. Res. 4: 135-168.
——— and M. Shapovalov. 1920. (855)
Temperature relations of certain potato-rot and wilt-producing fungi. Jour. Agr. Res. 18: 511-524.
Ehrenberg, P. 1906. (856)
Einige Beobachtungen über Pflanzenbeschädigungen durch Spüljauchenberieselung. Zeitschr. Pflanzenkr. 16: 193-202.
———. 1908. (857)
Wirkungen des Zinks bei Vegetationversuchen. Chem. Zeit. 32: 937. (Abst.).
———. 1914. (858)
Zur Gasvergiftung von Strassenbäumen. Zeitschr. Pflanzenkr. 24: 33-40.
———. 1919. (859)
Der Einfluss des Bodens und der Düngung auf Pflanzenkrankheiten. Fuhling's Landw. Zeit. 68: 402-412.
——— and K. Schultze. 1916. (860)
Zur Gasvergiftung von Strassenbäumen. Zeitschr. Pflanzenkr. 26: 65-83.
Eicke, S. 1914. (861)
Beiträge zur Rauchschädenforschung. Naturw. Zeitschr. Forst- u. Landw. 12: 201-207.
Ellett, W. B. and J. T. Grissom. 1915. (862)
The amount of arsenic in solution when lead arsenate is added to different spray solutions. Va. Agr. Exp. Sta. Tech. Bull. 8, 160-164.
Elliot, C. 1920. (863)
Halo-blight of oats. Jour. Agr. Res. 19: 139-172.
———. 1923. (864)
A bacterial disease of Proso millet. Jour. Agr. Res. 26: 151-159.
———. 1924. (865)
A bacterial leafspot of Martynia. Jour. Agr. Res. 29: 483-490.
———. 1927. (866)
Bacterial stripe blight of oats. Jour. Agr. Res. 35: 811-824.
———. 1930. (867)
Bacterial streak disease of sorghums. Jour. Agr. Res. 40: 963-976.
——— and E. F. Smith. 1929. (868)
A bacterial stripe disease of sorghum. Jour. Agr. Res. 38: 1-22.
Elliot, J. A. 1924. (869)
Tomato wilt and its control in Arkansas. Ark. Agr. Exp. Sta. Bull. 194, 1-11.
Ellis, J. H. 1919. (870)
Observations on rust control. Man. Ext. Bull. 41, 1-23.
Emerson, R. A. 1923. (871)
The inheritance of blotch leaf in maize. N. Y. (Cornell) Agr. Exp. Sta. Mem. 70, 1-16.
Endo, S. 1928. (872)
Studies on Hypochnus centrifugus from Trifolium repens. (Japanese). Jour. Microbiol. and Pathol., Japan, 22: 1851-1866.

English, L. L. 1928. (873)
Some properties of oil emulsions influencing insecticidal efficiency. Ill. Nat. Hist. Survey Bull. 17 (5), 235-259.
Enlows, E. M. A. 1918. (874)
A leafblight of Kalmia latifolia. Jour. Agr. Res. 13: 199-212.
Ensign, M. R. 1919. (875)
Gas injury to wheat. Phytopath. 9: 266.
Eriksson, J. 1895. (876)
Ueber die Förderung der Pilzsporenkeimung durch Kälte. Centbl. Bakt. 1: 557-565.
————. 1897. (877)
Eine allgemeine Übersicht der wichtigsten Ergebnisse der schwedischen Getreiderostuntersuchungen. Bot. Centbl. 72: 321-325, 354-362.
————. 1898. (878)
A general review of the principal results of Swedish research into grain rust. Bot. Gaz. 25: 26-38.
————. 1902. (879)
Ueber die Spezialisierung des Getreideschwarzrostes in Schweden und in anderen Ländern. Centbl. Bakt. 9: 654-658.
————. 1916. (880)
Über den Ursprung des primären Ausbruches der Krautfäule, Phytophthora infestans (Mont.) de By., auf dem Kartoffelfelde. Arkiv. Bot. 14 (20): 1-72.
———— and E. Henning. 1896. (881)
Die Getreideroste. Stockholm.
Erni, W. 1928. (882)
Versuche zur Verbesserung der Schwefelkalkbrühe. Schweiz. Zeitschr. f. Obst- u. Weinbau 37: 454-455.
Erwin, A. T. 1916. (883)
Late potato blight in Iowa. Iowa Agr. Exp. Sta. Bull. 163, 285-305.
————. 1916. (884)
Late potato blight epidemics in Iowa as correlated with climatic conditions. Proc. Iowa Acad. Sci. 23: 583-592.
————. 1921. (885)
Controlling downy mildew of lettuce. Iowa Agr. Exp. Sta. Bull. 196, 305-328.
Esbjerg, N. 1929. (886)
Forsog med Rentabiliteten ved Sprojtning af Aebletraeer. I. Tidsskr. Planteavl 35: 517-565.
Esmarch, F. 1924. (887)
Zur Biologie des Kartoffelkrebses. Deutsche Landw. Presse 51: (2) 11-12, (3) 18-19.
————. 1926. (888)
Untersuchungen zur Biologie des Kartoffelkrebses. Angew. Bot. 8: 102-135.
————. 1927. (889)
Untersuchungen zur Biologie des Kartoffelkrebses II. Angew. Bot. 9: 88-124.
————. 1928. (890)
Die Herz-und Trockenfäule der Rüben. Die Kranke Pflanze 5: 161-163.
————. 1928. (891)
Untersuchungen zur Biologie des Kartoffelkrebses III. Angew. Bot. 10: 280-304.
————. 1929. (892)
Pflanzenschädigungen durch Winterfrost. Die Kranke Pflanze 6: 40-42.
————. 1929. (893)
Der Gürtelschorf der Rüben. Die Kranke Pflanze 6: 145-147.
————. 1929. (894)
Rauchschäden an landwirtschaftlichen Kulturpflanzen. Die Kranke Pflanze 6: 201-204.
————. 1930. (895)
Rauchschäden an landwirtschaftlichen Kulturpflanzen. Die Kranke Pflanze 7: 5-8, 18-23.
Eustace, H. J. 1903. (896)
Two decays of stored apples. N. Y. (Geneva) Agr. Exp. Sta. Bull. 235, 123-131.
————. 1905. (897)
Winter injury to fruit trees. N. Y. (Geneva) Agr. Exp. Sta. Bull. 269, 323-343.
————. 1908. (898)
Investigations on some fruit diseases. N. Y. (Geneva) Agr. Exp. Sta. Bull. 297, 31-48.
Evans, I. B. P. 1909. (899)
Bitter-pit of the apple. Transvaal Dept. Agr. Tech. Bull. 1, 1-18.

———. 1911. (900)
South African cereal rusts, with observations on the problem of breeding rust-resistant wheats. Jour. Agr. Sci. 4: 95-104.
Ewart, A. J. 1911. (901)
On bitter pit and the sensitivity of apples to poison. Proc. Roy. Soc. Victoria 24: 367-419.
———. 1913 and 1914. (902)
On bitter pit and the sensitivity of apples to poison. Proc. Roy. Soc. Victoria 26: 12-44, 228-242 and 27: 342-349.
———. 1917. (903)
The cause of bitter pit. Proc. Roy. Soc. Victoria 30: 15-20.
Ewell, E. E. 1902. (904)
Occurrence and importance of soluble manganese salts in soils. Science 16: 291.
Ewert, R. 1905. (905)
Die physiologische Wirkung der Kupferkalkbrühe (Bordeauxbrühe). Zeitschr. Pflanzenkr. 15: 166-167. (Abst.).
———. 1905. (906)
Der wechwelseitige Einfluss des Lichtes und der Kupferkalkbrühen auf den Stoffwechsel der Pflanze. Landw. Jahrb. 34: 233-310.
———. 1910. (907)
Die Überwinterung von Sommerkonidien pathogener Ascomyceten und die Widerstandsfähigkeit derselben gegen Kälte. Zeitschr. Pflanzenkr. 20: 129-141.
———. 1914. (908)
Die Schädigungen der Vegetation durch Teeröldämpfe und ihre Verhütung. Zeitschr. Pflanzenkr. 24: 257-273, 321-340.
———. 1917. (909)
Die Einwirkung von Teerdämpfen und anderen Rauchgasen auf die Pflanzen. Gartenflora 66: 245-251.
———. 1917. (910)
Die Ermittelung in den Teerdämpfen enthaltenen pflanzenschädlichen Bestandteile und die Unterscheidung ihrer Wirkung von anderen akuten Rauchbeschädigungen der Pflanzen. Landw. Jahrb. 50: 695-832.
———. 1926. (911)
Die Einwirkung von Teer und Teerdämpfung auf den Boden. Landw. Jahrb. 63: 103-128.
Ezekiel, W. N. 1923. (912)
Hydrogen ion concentration and the development of Sclerotinia apothecia. Science 58: 166.
———. 1924. (913)
Fruit-rotting Sclerotinias. II. The American brown-rot fungi. Md. Agr. Exp. Sta. Bull. 271, 87-142.
———. 1929. (914)
Report of the Cotton Root-Rot Conference at College Station, Texas. Phytopath. 19: 687-689.
——— and D. C. Neal. 1930. (915)
Report of the cotton-root-rot conferences at Temple, Texas. Phytopath. 20: 889-894.
——— and J. J. Taubenhaus. 1930. (916)
Soil reaction as influencing Phymatotrichum root rot. Phytopath. 20: 117. (Abst.).
———, ———, and E. C. Carlyle. 1930. (917)
Soil-reaction effects on Phymatotrichum root rot. Phytopath. 20: 803-815.
Faber, F. C. von. 1908. (918)
Die Krankheiten und Schädlinge des Kaffees, I. Centbl. Bakt. 21: 97-117.
Fabricus, L. 1930. (919)
Die Schäden des Winterwetters (1928-29) an den fremdländischen Holzarten des forstlichen Versuchsgartens in Grafroth bei München. Forstw. Centbl. 52: 32-47.
Faes, H. 1927. (920)
La chlorose. Terre Vaude 19: 734-735.
———. 1928. (921)
Influence des conditions climatériques sur le développement des insectes et champignons parasites des cultures. Ann. Agr. Suisse 29: 221-228.
Fahmy, T. 1927. (922)
The Fusarium disease (wilt) of cotton and its control. Phytopath. 17: 749-767.
Fairchild, D. G. 1891. (923)
Diseases of the grape in western New York. Jour. Mycol. 6: 96-99.

Fajardo, T. G. 1930. (924)
Studies on the mosaic disease of the bean (Phaseolus vulgaris L.). Phytopath. 20: 469-494.
———. 1930. (925)
Studies on the properties of the bean-mosaic virus. Phytopath. 20: 883-888.
Falck, R. 1907. (926)
Wachstumsgesetze, Wachstumsfaktoren und Temperaturwerte der holzzerstörenden Mycelien. Möller's Hausschwammforshungen Herausgeg. 1: 53-152.
———. 1909. (927)
Die Lenzitesfäule des Koniferenholzes. Möller's Hausschwammforschungen Herausgeg. 3: 1-234.
———. 1912. (928)
Die Meruliusfäule des Bauholzes. Möller's Hausschwammforschungen Herausgeg. 6: 1-405.
———. 1924. (929)
Ueber das Eichensterben im Regierungsbezirk Straslund nebst Beiträgen zur Biologie des Hallimaschs und Eichenmeltaus. Allg. Forst- und Jagdzeit. 100: 298-317.
———. 1928. (930)
Lärchensterben und Theorie der Krebsbildung. I. Lärchensterben und Stammkrebsbildung. Gartenbauwiss. 1: 53-70.
Fant, G. W. 1928. (931)
The development of peach sooty mold at normal and low temperatures. Jour. Elisha Mitchell Sci. Soc. 43: 217-219.
Farcy, J. 1906. (932)
La chlorose de la vigne. Rev. Vitic. 26: 466.
Faris, J. A. 1921. (933)
Violet root rot (Rhizoctonia crocorum D. C.) in the United States. Phytopath. 11: 412-423.
———. 1924. (934)
Factors influencing infection of Hordeum sativum by Ustilago hordei. Amer. Jour. Bot. 11: 189-214.
———. 1924. (935)
Factors influencing the infection of wheat by Tilletia tritici and Tilletia laevis. Mycologia 16: 259-282.
———. 1926. (936)
Cold chlorosis of sugar cane. Phytopath. 16: 885-891.
———. 1927. (937)
Field control of sugar cane root disease conditions. Trop. Pl. Res. Found. Bull. 6, 1-16.
———. 1928. (938)
Brown stripe of sugar cane in Cuba. Phytopath. 18: 135. (Abst.).
———. 1928. (939)
Three Helminthosporium diseases of sugar cane. Phytopath. 18: 753-773.
——— and R. V. Allison. 1927. (940)
Sugar cane root disease in Cuba: A progress report upon the root disease situation in 1925. Phytopath. 17: 61-82.
Farley, A. J. 1925. (941)
Spraying experiments with peaches and apples. N. J. Agr. Exp. Sta. Ann. Rept. 46, 114-127.
Farmer, J. B. 1914-15. (942)
On certain relations between the plant and its physical environment. Jour. Roy. Soc. Hort., London, 40: 197-207.
——— and S. E. Chandler. 1902. (943)
The influence of an excess of carbon dioxide in the air on the form and internal structure of plants. Proc. Roy. Soc., London, 70: 413-423.
Farneti, R. 1906. (944)
Ricerche spermentali ed anatomo—fisiologiche intorno alla influenza dell'ambiente e della sovrabbondante concimazione sulla diminuita o perduta resistenza al "brusone" del Riso bertone e di altre varietà introdotte dall' estero. Riv. Path. Veg. 2: 1-11.
Fassbender, G. and A. Y. Grevillius. 1899. (945)
Über die Einwirkung von Essigsäuredämpfen und verdünnten Essigsäurelösungen auf Pflanzen. Landw. Vers. Sta. 52: 195-208.
Faull, J. H. 1921. (946)
Forest pathology. Ontario Min. Lands and Forests Rept., 1920, 224-235.

Faulwetter, R. C. 1916. (947)
Physiology of Bacterium malvacearum Smith. S. C. Agr. Exp. Sta. Ann. Rept. 29, 49-64.
————. 1917. (948)
Wind-blown rain, a factor in disease dissemination. Jour. Agr. Res. 10: 639-648.
————. 1919. (949)
The angular leaf-spot of cotton. S. C. Agr. Exp. Sta. Bull. 198, 1-29.
Fawcett, H. S. 1911. (950)
Stem-end rot of citrus fruits. Fla. Agr. Exp. Sta. Bull. 107, 1-23.
————. 1917. (951)
The geographical distribution of the citrus diseases melanose and stem-end rot. Johns Hopkins Univ. Circ. n. s. 3, 190-193.
————. 1921. (952)
The temperature relations of growth in certain parasitic fungi. Univ. Calif. Publ. in Agr. Sci. 4: 183-232.
————. 1921. (953)
Some relations of temperature to growth and infection in the citrus scab fungus, Cladosporium citri. Jour. Agr. Res. 21: 243-253.
————. 1924. (954)
Influence of time and temperature on the rate of growth of certain fungi. Phytopath. 14: 119-120. (Abst.).
————. 1929. (955)
Nematospora on pomegranates, citrus, and cotton in California. Phytopath. 19: 479-486.
———— and W. R. Barger. 1927. (960)
Relation of temperature to growth of Penicillium italicum and P. digitatum and to citrus fruit decay produced by these fungi. Phytopath. 17: 746-747. (Abst.).
———— and ————. 1927. (961)
Relation of temperature to growth of Penicillium italicum and P. digitatum and to citrus fruit decay produced by these fungi. Jour. Agr. Res. 35: 925-931.
————, W. T. Horne, and A. F. Camp. 1923. (962)
Citrus blast and black pit. Calif. Agr. Exp. Sta. Tech. Paper 5, 1-24.
———— and H. A. Lee. 1926. (963)
Citrus diseases and their control. New York.
Fayard, J. 1920. (964)
La chlorose des vignes. Rev. Vitic. 52: 434-435.
Feilitzen, H. 1904. (965)
Wie zeigt sich der Kalimangel bei Klee und Timotheegras? Mitt. Ver. Förd. Moorkultur. 22: 39.
Fellows, M. 1926. (966)
The influence of carbon dioxide and oxygen on the growth of Ophiobolus graminis in pure cultures. Phytopath. 16: 81. (Abst.).
Fellows, H. 1928. (967)
The influence of oxygen and carbon dioxide on the growth of Ophiobolus graminis in pure culture. Jour. Agr. Res. 37: 349-355.
Felt, E. P. 1913. (968)
Injuries following the application of petroleum or petroleum products to dormant trees. Jour. Econ. Ent. 6: 160-161.
Fergus, E. N. and W. D. Valleau. 1926. (969)
A study of clover failure in Kentucky. Ky. Agr. Exp. Sta. Bull. 269, 139-210.
Ferguson, M. C. 1902. (970)
Germination of the spores of Agaricus campestris and other basidiomycetous fungi. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 16, 1-40.
Fernald, H. T. and A. I. Bourne. 1922. (971)
Injury to foliage by arsenical sprays. Mass. Agr. Exp. Sta. Bull. 207, 1-19.
———— and ————. 1922. (972)
Injury to foliage by arsenical sprays. II and III. Mass. Agr. Exp. Sta. Bull. 210, 89-98.
Findlay, W. P. K. 1928. (973)
Some conditions influencing the development of bacterial disease of cotton (Bacterium malvacearum). Empire Cotton Growing Rev., London, 5: 29-39.
Fink, B. 1918. (974)
The distribution of fungi in Porto Rico. Mycologia 10: 58-61.
Finlow, R. S. 1918. (975)
Rhizoctonia in jute: The inhibiting effect of potash manuring. Agr. Jour. India (Spec. Sci. Cong. No.) 13: 65-72.

Finnell, H. H. 1928. (976)
Effect of wind on plant growth. Jour. Amer. Soc. Agron. 20: 1206-1210.
———. 1929. (977)
Some effects of wind injury to growing plants. Proc. Okla. Acad. Sci. 9: 24-27.
Fischer, E. 1908. (978)
Der Entwicklungsgang der Uredineen und die Enstehung neuer Formen im Pflanzenreich. Mitt. Nat. Ges., Bern, 1907: 136-154.
——— and E. Gäumann. 1929. (979)
Biologie der pflanzenbewohnenden parasitischen Pilze. Jena.
Fischer, H. 1915. (980)
Versuche über Frostbeschädigung an Getreide und Hulsenfruchten. Jahresbr. Ver. Angew. Bot. 13: 92-141.
Fischer, W. 1912. (981)
Beiträge zur Physiologie von Phoma betae Fr. Mitt. K. Wilhelm Inst. Landw., Bromberg, 5: 85-108.
Fish, S. 1930. (982)
Brown rot and transit rot and their control. A report on consignments of peaches sent from the Goulburn Valley to the Sydney market. Jour. Dept. Agr. Victoria 28: 33-43.
Fisher, D. F. 1918. (983)
Apple powdery mildew and its control in the arid regions of the Pacific Northwest. U. S. Dept. Agr., Dept. Bull. 712, 1-28.
———. 1919. (984)
Apple powdery mildew a serious menace to orchards. Better Fruit 13 (10): 3-6.
———. 1919. (985)
Factors that influence diseases of apples in storage. Better Fruit 14 (3): 3-4, 23-28.
———. 1921. (986)
Winter injury. Proc. Wash. State Hort. Assoc. 16: 27-35.
———. 1921. (987)
Drouth spot and related physiological diseases. Proc. Wash. Sta. Hort. Assoc. 16: 35-39.
———. 1923. (988)
Water core. Proc. Wash. Sta. Hort. Assoc. 19: 98-104.
——— and C. Brooks. 1920. (989)
Drouth-spot and related physiological diseases. Agr. Jour. Dept. Agr. British Columbia 5: 290-295.
——— ——— and ——— ———. 1927 and 1928. (990)
Apple water-core theories revised. Better Fruit 22 (6): 5, 21; 23 (1): 14, 15, 22, 24, 26.
——— and E. J. Newcomer. 1919. (991)
Controlling important fungus and insect enemies of the pear in the humid sections of the Pacific Northwest. U. S. Dept. Agr., Farmers' Bull. 1056, 1-34.
Fitch, C. L. 1915. (992)
Studies of health in potatoes. Colo. Agr. Exp. Sta. Bull. 216, 1-31.
Flachs, K. 1928. (993)
Die Septoria-Blattfleckenkrankheit des Selleries und ihre Bekämpfung. Prakt. Blätter Pflanzenbau u. Pflanzenschutz 6: 93-96.
Fletcher, J. 1889. (994)
Black knot of the grape. Canada Exp. Farms Rept. 87.
Flor, H. H. 1929. (995)
A study of a species of Pythium in its action on sugar cane. La. Agr. Exp. Sta. Bien. Rept., 1928-29, 54-55.
———. 1930. (996)
Factors influencing the severity of the root rot troubles of sugar cane. La. Agr. Exp. Sta. Bull. 212, 1-40.
———. 1930. (997)
Relation of environmental factors to growth and pathogenicity of Pythium isolated from roots of sugar cane. Phytopath. 20: 319-328.
Flora, S. D. and S. L. Bush. 1917. (998)
Damage by hail in Kansas. U. S. Dept. Agr., Mo. Weather Rev. 45: 359-361.
Floyd, B. F. 1910. (999)
Chlorosis of cassava. Fla. Agr. Exp. Sta. Ann. Rept., 1909, 76-78.
———. 1912. (1000)
Problems in citrus nutrition. Fla. Agr. Exp. Sta. Ann. Rept., 1911, 68-81.

———. 1913. (1001)
Experiments with citrus dieback. Fla. Agr. Exp. Sta. Ann. Rept., 1912, 102-114.
———. 1917. (1002)
Some cases of injury to citrus trees apparently induced by ground limestone. Fla. Agr. Exp. Sta. Bull. 137, 161-179.
———. 1917. (1003)
Dieback, or Exanthema of citrus trees. Fla. Agr. Exp. Sta. Bull. 140, 1-31.
———. 1918. (1004)
Injury to citrus trees by the improper use of ground limestone. Fla. Agr. Exp. Sta. Ann. Rept., 1917, 35-46.
——— and H. E. Stevens. 1912. (1005)
Melanose and stem-end rot. Fla. Agr. Exp. Sta. Bull. 111, 1-16.
Flühler, A. 1874. (1006)
Die Krankheit der Agrumen in Sicilien. Biedermann's Centbl. 5: 368-372.
Föex, E. 1924. (1007)
Quelques observations sur les conditions qui favorisent le développement et l'extension des rouilles des céréales. Rev. Path. Vég. et Ent. Agr. 11: 32-41.
———. 1924. (1008)
Quelques maladies cryptogamiques de l'Olivier. Comp. Rend. Trav. VI Cong. Intern. d'Oléiculture, Nice, 1923, 179-209.
———. 1925. (1009)
Des facteurs qui assurent la sensibilité et la resistance aux rouilles de céréales. Compt. Rend. Assoc. Franc. Avanç. Sci. 49: 330-333.
Foister, C. E. 1929. (1010)
The relation of weather to plant diseases. Conf. Empire Meteorologists, 168-215.
Fokin, A. D. 1925. (1011)
Contribution to the ecology of sooty mould, Fumago vagans Pers. (Russian). Morbi Plantarum, Leningrad, 14: 29-33.
Folsom, D. and T. T. Ayres. 1928. (1012)
Apple spraying experiments in 1926 and 1927. Me. Agr. Exp. Sta. Bull. 348, 145-176.
——— and R. Bonde. 1926. (1013)
Potato spraying and dusting experiments, 1921 to 1925. Me. Agr. Exp. Sta. Bull. 334, 205-284.
Forbes, R. H. 1917. (1014)
Certain effects under irrigation of copper compounds upon crops. Univ. Calif. Publ. Agr. Sci. 1: 395-494.
Forster, H. C. and A. J. Vasey. 1929. (1015)
The relation between flag smut infection and manurial treatment. Jour. Dept. Agr. Victoria 27: 321-330.
Foster, A. C. and G. F. Weber. 1924. (1016)
Celery diseases in Florida. Fla. Agr. Exp. Sta. Bull. 173, 23-77.
Frank, A. 1900. (1017)
Beeinflussung von Weizenschädlingen durch Bestellzeit und Chilisalpeter-Düngung. Arb. K. Biol. Anst. Land.- u. Forstw. 1: 115-125.
Frank, A. 1925. (1018)
1924 information on winter injury, mosaic and other diseases of raspberries in western Washington. Proc. Wash. Sta. Hort. Assoc. 20: 128-135.
Frazer, P. 1907. (1019)
Search for causes of injury to vegetation in an urban villa near a large industrial establishment. Trans. Amer. Inst. Mining Eng. 38: 498-555.
Frear, W. 1915. (1020)
Sour soils and liming. Pa. Dept. Agr. Bull. 261, 1-221.
Fred, E. B. 1916. (1021)
Relation of green manures to the failure of certain seedlings. Jour. Agr. Res. 5: 1161-1176.
Freeman, E. M. 1902. (1022)
Experiments on the brown rust of Bromes (Puccinia dispersa). Ann. Bot. 16: 487-494.
———. 1911. (1023)
Resistance and immunity in plant diseases. Phytopath. 1: 109-115.
——— and E. C. Johnson. 1909. (1024)
The loose smuts of barley and wheat. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 152, 1-43.
——— and ———. 1911. (1025)
The rusts of grains in the United States. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 216, 1-87.

Freiberg, G. W. 1917. (1026)
Studies in the mosaic diseases of plants. Ann. Mo. Bot. Gard. 4: 175-232.
Frey, C. N. 1924. (1027)
The cytology and physiology of Venturia inequalis (Cooke) Winter. Trans. Wis. Acad. Sci. 21: 303-343.
———— and G. W. Keitt. 1925. (1028)
Studies of spore dissemination of Venturia inequalis (Cke.) Wint. in relation to seasonal development of apple scab. Jour. Agr. Res. 30: 529-540.
Freytag, M. 1868. (1029)
Ueber den Einfluss des Zincoxyds und seiner Verbindungen auf die Vegetation. Mitt. König. Landw. Akad., Poppelsdorf, 1: 82-99.
————. 1870. (1029a)
Wissenschaftliches Gutachten über den Einfluss, welchen die Hüttenwerke der mansfelder kupferschieferbonenden Gerwerkschaft auf die Vegetation und indirect auf Menschen und Thiere aüsuben. Eisleben.
————. 1882. (1030)
Die schädlichen Bestandtheile des Hüttenrauchs, der Kupfer—Blei—und Zink—Hütten und ihre Beseitigung. Landw. Jahrb. 11: 315-357.
Fritz, C. W. 1923. (1031)
Cultural criteria for the distinction of wood-destroying fungi. Trans. Roy. Soc. Canada 17 (Sec. 5): 191-288.
Fromme, F. D. 1913. (1032)
The culture of cereal rusts in the greenhouse. Bull. Torrey Bot. Club. 40: 501-521.
————. 1920. (1033)
The development of loose smut of wheat as modified by soil fertility. Phytopath. 10: 53. (Abst.).
———— and T. J. Murray. 1919. (1034)
Angular-leaf spot of tobacco, an undescribed bacterial disease. Jour. Agr. Res. 16: 219-228.
———— and S. A. Wingard. 1922. (1035)
Blackfire and wildfire of tobacco and their control. Va. Agr. Exp. Sta. Bull. 228, 1-19.
Frontz, L. 1928. (1036)
The effect of smoke and gas on forest and shade trees. Forest Leaves 21: 170-171.
Früh, J. 1902. (1037)
Die Abbildung der vorherrschenden Winde durch die Pflanzenwelt. Zurich, 97 pp.
Fudge, B R. 1930. (1038)
Soil acidity and its relation to growth of citrus. Citrus Indus. 11 (9): 4-6.
Fukushi, T. 1925. (1039)
Studies on the apple rust caused by Gymnosporangium yamadae Miyabe. Jour. Col. Agr., Hokkaido Imp. Univ., 15: 269-307.
Fulton, H. R. 1906. (1040)
Chemotropism of fungi. Bot. Gaz. 41: 81-108.
————. 1912. (1041)
An anthracnose of red clover caused by Gloeosporium caulivorum. Pa. Agr. Exp. Sta. Ann. Rept., 249.
————. 1927. (1042)
Organic fertilizers and cotton wilt control. Science 66: 193-194.
———— and J. J. Bowman. 1929. (1043)
Infection of fruit of citrus by Pseudomonas citri. Jour. Agr. Res. 39: 403-426.
Funchess, M. J. 1918. (1044)
The development of soluble manganese in acid soils as influenced by certain nitrogenous fertilizers. Ala. Agr. Exp. Sta. Bull. 201, 37-78.
Furlani, J. 1906. (1045)
Über den Einfluss der Kohlensäure auf den Laubfall. Osterr. Bot. Zeitschr. 56: 400-406.
Fuschini, C. 1911. (1046)
Il solfata ferroso esplica un azione utile contro le "ruggini" delle piante? Riv. R. Scuola Vit. Enol. 17: 443-446.
Gabnay, F. von. 1913. (1047)
Über die pflanzenschädliche Wirkung des Teers. Centbl. Gesam. Forstw. 39: 497-504.
Gabotto, L. 1927. (1048)
I danni prodotti dalla grandine al grano. Boll. Fitopath. Ent. Agr., Min. Econ. Naz. 5 (5): 1-16.
————. 1928. (1049)
La bolla nera del Pero. Coriamo Piante 6: 66-67.

Gadd, C. H. 1928. (1050)
Treatment of tea root diseases—Diagnosis and control. Planters' Chron. 23: 613-618, 634-635.
————. 1929. (1051)
The treatment of the Poria root disease. Tea Quarterly 2: 16-21.
————. 1929. (1052)
The relationship between food reserves of the tea bush and disease. Tea Quarterly 2: 54-64.
Gail, F. W. 1926. (1053)
Osmotic pressure of cell sap and its possible relation to winter killing and leaf fall. Bot. Gaz. 81: 434-445.
Gaillot, L. 1897. (1054)
Note sur le pied noir du blé ou piétin des céréales. Dept. Aisne Sta. Agron Bull. 8, 63-66.
Gaisberg, E. V. 1928. (1055)
Studien über den Lärchenkrebspilz, Dasyscypha willkommii, insbesondere über die Keimung seiner Sporen. Centbl. Bakt. 73: 206-233.
Gallagher, P. H. 1929. (1056)
Investigation into the relation of soil conditions to failures in the beet crop 1928. Jour. Dept. Agr., Dublin, 29: 61-81.
Galloway, B. T. 1887. (1056a)
Celery leaf blight. U. S Dept. Agr. Rept., 1886, 117-120.
————. 1889. (1057)
Additional notes on celery-leaf blight. U. S. Dept. Agr. Rept., 1888, 398-399.
————. 1894. (1058)
Some destructive potato diseases: What they are and how to prevent them. U. S. Dept. Agr., Farmers' Bull. 15, 1-8.
————. 1896. (1059)
Frosts and freezes as affecting cultivated plants. U. S. Dept. Agr. Yrbk., 1895, 143-158.
————. 1896. (1060)
The pathology of plants: Lines of investigation that might be undertaken by experiment stations. Exp. Sta. Rec. 7: 725-735.
————. 1899. (1061)
Potato diseases and their treatment. U. S. Dept. Agr., Farmers' Bull. 91, 1-11.
———— and A. F. Woods. 1897. (1062)
Diseases of shade and ornamental trees. U. S. Dept. Agr. Yrbk., 1896, 237-254.
Gard, M. 1925. (1063)
La maladie du noicissement chez le noyer cultivé (Juglans regia L.). Compt. Rend. Assoc. Franc. Avanç. Sci. 49: 382-383.
————. 1926. (1064)
Sur la chlorose du Noyer cultivé (Juglans regia L). Rev. Path. Vég. et Ent. Agr. 13: 265-266.
————. 1928. (1065)
Sur les causes de l'infécondité des Noyers et de la Vigne en 1926. Ann. des Ephyties 14: 132-162.
————. 1928. (1066)
Pourridié du noyer cultivé (Juglans regia L.) et carbonate de chaux. Compt. Rend. Acad. Sci. (Paris) 186: 1373-1375.
————. 1929. (1067)
Pourridié et carbonate de chaux. Compt. Rend. Acad. Sci. (Paris) 189: 497-498.
Gardner, M. W. 1918. (1068)
Anthracnose of cucurbits. U. S. Dept. Agr., Dept. Bull. 727, 1-68.
————. 1918. (1069)
The mode of dissemination of fungous and bacterial diseases of plants. Mich. Acad. Sci. Rept. 20: 357-423.
————. 1920. (1070)
Peronospora in turnip roots. Phytopath. 10: 321-322
————. 1924. (1071)
Indiana plant diseases, 1921 and 1922. Proc. Ind. Acad. Sci. 1923: 163-211.
————. 1925. (1072)
Cladosporium leaf mold of tomato: Fruit invasion and seed transmission. Jour. Agr. Res. 31: 519-540.
————. 1929. (1073)
Sporotrichum fruit spot and surface rot of apple. Phytopath. 19: 443-451.

———————. 1930. (1074)
Leaf rust investigations. Ind. Agr. Exp. Sta. Ann. Rept., 1929, 22-23.
———————, L. Green, and C. E. Baker. 1923. (1075)
Apple blotch. Ind. Agr. Exp. Sta. Bull. 267, 1-32.
——————— and J. B. Kendrick. 1921. (1076)
Bacterial spot of tomato. Jour. Agr. Res. 21: 123-156.
——————— and ———————. 1923. (1077)
Bacterial spot of tomato and pepper. Phytopath. 13: 307-315.
——————— and ———————. 1925. (1078)
Bacterial spot of cowpea and lima bean. Jour. Agr. Res. 31: 841-863.
Gardner, V. R., F. C. Bradford, and H. D. Hooker. 1922. (1079)
Pathological conditions associated with excesses or deficiencies in moisture. The Fundamentals of Fruit Production. pp. 83-100. New York.
Garman, H. 1899. (1080)
A method of avoiding lettuce rot. Ky. Agr. Exp. Sta. Bull. 81, 1-4.
———————. 1899. (1081)
The elms and their diseases. Ky. Agr. Exp. Sta. Bull. 84, 53-75.
———————. 1927. (1082)
Plant disease investigations. Ky. Agr. Exp. Sta. Ann. Rept. 40, 15-18.
Garner, W. W. et al. 1923. (1083)
Sand drown, a chlorosis of tobacco due to magnesium deficiency, and the relation of sulfates and chlorids of potassium to the disease. Jour. Agr. Res. 23: 27-40.
——————— et al. 1930. (1084)
Magnesium and calcium requirements of the tobacco crop. Jour. Agr. Res. 40: 145-168.
———————, J. E. McMurtrey, and E. G. Moss. 1922. (1085)
Sand drown, a chlorosis of tobacco and other plants resulting from magnesium deficiency. Science 56: 341-342.
———————, F. A. Wolf, and E. G. Moss. 1917. (1086)
The control of tobacco wilt in the flue-cured district. U. S. Dept. Agr., Dept. Bull. 562, 1-20.
Gassner, G. 1915. (1087)
Über einen Fall von Weissblatterigkeit durch Kältewirkung. Ber. Deutsch. Bot. Ges. 33: 478-486.
———————. 1916. (1088)
Die Getreideroste und ihre Auftreten im subtropischen östlichen Südamerika. Centbl. Bakt. 44: 305-381.
———————. 1916. (1089)
Untersuchungen über die Abhängigkeit des Auftretens der Getreideroste von Entwicklungszustand der Nährpflanze und von äusseren Faktoren. Centbl. Bakt. 44: 512-617.
———————. 1919. (1090)
Untersuchen über die Sortenempfänglichkeit von Getreidepflanzen gegen Rostpilze. Centbl. Bakt. 49: 185-243.
———————. 1925. (1091)
Ueber die Abhängigkeit des Steinbrandauftretens von der Bodenbeschaffenheit. Angew. Bot. 7: 80-87.
———————. 1927. (1092)
Die Frage der Rostanfälligkeit als ernährungsphysiologisches Problem. Angew. Bot. 9: 531-541.
——————— and G. O. Appel. 1927. (1093)
Untersuchungen über die Infektionsbedingungen der Getreiderostpilze. Arb. Biol. Reichsanst. Land- u. Forstw. 15: 417-436.
——————— and W. Straib. 1928. (1094)
Untersuchungen über die Infectionsbedingungen von Puccinia glumarum und Puccinia graminis. Arb. Biol. Reichsanst. Land- u. Forstw. 16: 609-629.
——————— and ———————. 1929. (1095)
Untersuchungen über die Abhängigkeit des Infektionsverhaltens der Getreiderostpilze von Kohlensäuregehalt der Luft. Phytopath. Zeitschr. 1: 1-30.
——————— and ———————. 1929. (1096)
Experimentelle Untersuchungen über das Verhalten der Weizensorten gegen Puccinia glumarum. Phytopath. Zeitschr. 1: 215-275.
Gates, F. C. 1915. (1097)
Wind burn in Amorphophallus. Bot. Gaz. 60: 414.

Gatin, C. L. 1911. (1098)
Influence du goudronnage des routes sur la végétation des arbres du bois de Boulogne. Compt. Rend. Acad. Sci. (Paris) 153: 202-204, 688-690.
————. 1912. (1099)
Die gegen die Abnutzung und den Staub der Strassen Augewendeten Verfahren und ihre Wirkung auf die Vegetation. Zeitschr. Pflanzenkr. 22: 193-203.
————. 1912. (1100)
L'action des poussières goudronneuses. Ann. Sci. Agron. 4: 321-331.
Gauch, A. and J. Durand. 1920. (1101)
Nature de la maladie du court-noué. Prog. Agr. et Vitic. 73: 540-543.
Gaudineau and L. Guyot. 1925. (1102)
De quelques facteurs qui influencent le développement de la maladie du pietin du Blé. Rev. Path. Vég. et Ent. Agr. 12: 317-342.
Gaul, F. 1913. (1103)
Der Einfluss der Temperatur auf die Ausbreitung der Kartoffelkrankheit. Deutsche. Landw. Presse 40: 1094.
Gäumann, E. 1925. (1104)
Untersuchungen über die Herzkrankheit (Phyllonekrose) der Runkel- und Zuckerrüben I. Vierteljahrschr. Nat. Ges., Zurich, 70: 1-106.
————. 1928. (1105)
Ueber die Bekämpfung des Wurzelbrandes der Zuckerrüben. Landw. Jahrb. Schweiz. 42: 571-582.
————. 1930. (1106)
Untersuchungen über die Herzkrankheit (Phyllonekrose) der Runkel- und Zuckerrüben II. Landw. Jahrb. Schweiz. 44: 143-150.
Gedroits, K. K. 1910. (1107)
The effect of acids, alkalis, and some inorganic salts on plants. (Russian). Russ. Jour. Exp. Landw. 11: 544-578, 641-678.
Gericke, W. F. 1922. (1108)
"Magnesia injury" of plants grown in nutrient solutions. Bot. Gaz. 74: 110-113.
Gerlach, M. 1908. (1109)
Besondere Vorkommnisse und Beobachtungen bei Waldbeschädigungen durch Rauchgase. Zeitschr. Forst. u. Jagdw. 40: 429-437.
Gerneck, R. 1912. (1110)
Einfluss der Witterung auf das Auftreten der Peronosporakrankheit der Reben. Weinbau u. Weinhandel 30: 199-200.
Gibs, W. 1924. (1111)
Veränderungen der Brandanfälligkeit durch äussere Bedingungen. Jour. Landw. 62: 111-124.
Gibson, C. M. 1904. (1112)
Notes on infection experiments with various Uredineae. New Phytol. 3: 184-191.
Gibson, F. 1922. (1113)
Sunburn and aphid injury of soybeans and cowpeas. Ariz. Agr. Exp. Sta. Tech. Bull. 2, 41-46.
Giddings, N. J. 1910. (1114)
A bacterial soft rot of muskmelon, caused by Bacillus melonis n. sp. Vt. Agr. Exp. Sta. Bull. 148, 359-416.
————. 1911. (1115)
Apple rust. Farm and Orchard 1 (12): 3-5.
————. 1917. (1116)
Potato and tomato diseases. W. Va. Agr. Exp. Sta. Bull. 165, 1-24.
———— and A. Berg. 1916. (1117)
New or noteworthy facts concerning apple rust. Phytopath. 6: 79-80.
———— and ————. 1918. (1118)
Infection and immunity in apple rust. W. Va. Agr. Exp. Sta. Bull. 170, 1-71.
Gilford, C. M. 1911. (1119)
The damping-off of coniferous seedlings. Vt. Agr. Exp. Sta. Bull. 157, 141-171.
Gilbert, B. E., F. T. McLean, and L. J. Hardin. 1926. (1120)
The relation of manganese and iron to a lime-induced chlorosis. Soil Sci. 22: 437-446.
———— and ————. 1928. (1121)
A "deficiency disease": The lack of available manganese in a lime-induced chlorosis. Soil Sci. 26: 27-31.

Gilbert, W. W. 1909. (1122)
The root-rot of tobacco caused by Thielavia basicola. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 158, 1-48.
————. 1913. (1123)
Cotton anthracnose and how to control it. U. S. Dept. Agr., Farmers' Bull. 555, 1-8.
————. 1914. (1124)
Cotton wilt and root-knot. U. S. Dept. Agr., Farmers' Bull. 625, 1-21.
————. 1921. (1125)
Cotton diseases and their control. U. S. Dept. Agr., Farmers' Bull. 1187, 1-32.
Gile, P. L. 1911. (1126)
Relation of calcareous soils to pineapple chlorosis. Porto Rico Agr. Exp. Sta. Bull. 11, 1-45.
————. 1916. (1127)
Chlorosis of pineapple induced by manganese and carbonate of lime. Science 44: 855-857.
———— and J. O. Carrero. 1915. (1128)
Chlorosis of sugar cane and rice. Porto Rico Agr. Exp. Sta. Ann. Rept., 1914, 14-16.
———— and ————. 1918. (1129)
Chlorosis of sugar cane. Porto Rico Agr. Exp. Sta. Ann. Rept., 1917, 10-20.
———— and ————. 1920. (1130)
Cause of lime-induced chlorosis and availability of iron in the soil. Jour. Agr. Res. 20: 33-61.
Gillespie, L. J. 1918. (1131)
The growth of the potato scab organism at various hydrogen ion concentrations as related to the comparative freedom of acid soils from the potato scab. Phytopath. 8: 257-269.
———— and L. A. Hurst. 1918. (1132)
Hydrogen-ion concentration—soil type—common potato scab. Soil. Sci. 6: 219-236.
Gilman, J. C. 1914. (1133)
The relation of temperature to the infection of cabbage by Fusarium conglutinans Wollenw. Phytopath. 4: 404. (Abst.).
————. 1916. (1134)
Cabbage yellows and the relation of temperature to its occurrence. Ann. Mo. Bot. Gard. 3: 25-84.
Ginsburg, J. M. 1925. (1135)
Composition and appearance of soybean plants grown in culture solutions each lacking a different essential element. Soil Sci. 20: 1-13.
————. 1926. (1136)
Chemical studies of the New Jersey dry-mix spray in relation to arsenical injury. N. J. Agr. Exp. Sta. Ann. Rept. 47, 199-206.
————. 1929. (1137)
Injury from oil-sulfur sprays. N. J. Agr. Exp. Sta. Ann. Rept. 50, 175-176.
Girardi, J. 1920. (1138)
La chlorosis de les plantes. Bol. Mens Def. Agr. Uruguay, 300-302.
Gladwin, F. E. 1915. (1139)
Observations relative to an obscure grape affection. Phytopath. 5: 169-174.
————. 1917. (1140)
Winter injury of grapes. N. Y. (Geneva) Agr. Exp. Sta. Bull. 433, 107-139.
————. 1918. (1141)
A non-parasitic malady of the vine. N. Y. (Geneva) Agr. Exp. Sta. Bull. 449, 99-110.
————. 1928. (1142)
Downy and powdery mildews of the grape and their control. N. Y. (Geneva) Agr. Exp. Sta. Bull. 560, 1-14.
Gleispach, M. 1928. (1143)
Über den Einfluss von Dämpfen und Gasen auf den Laubfall und andere Organablösungen. Sitzungsber. Akad. Wiss., Wien, 137: 661-689.
Gloyer, W. O. 1921. (1144)
Blister canker of apple and its control. N. Y. (Geneva) Agr. Exp. Sta. Bull. 485, 1-71.
————. 1922. (1145)
Bacterial blight of beans under field conditions. Abst. Bact. 6: 40. (Abst.).
————. 1924. (1146)
The effect of late planting on the bacterial blight of beans. Phytopath. 14: 27. (Abst.).

———. 1926. (1147)
The dwarfing, shrivelling, and dropping of cherries and prunes. N. Y. (Geneva) Agr. Exp. Sta. Bull. 540, 1-18.
——— and H. Glasgow. 1928. (1148)
Defoliation of cherry trees in relation to winter injury. N. Y. (Geneva) Agr. Exp. Sta. Bull. 555, 1-27.
Glynne, M. D. 1925. (1149)
Infection experiments with wart disease of potatoes. Synchytrium endobioticum (Schilb.) Pers. Ann. Appl. Biol. 12: 34-60.
———. 1926. (1150)
The viability of the winter sporangium of Synchytrium endobioticum (Schilb.) Pers., the organism causing wart disease in potato. Ann. Appl. Biol. 13: 19-36.
Godden, W. and R. E. R. Grimmett. 1928. (1151)
Factors affecting the iron and manganese content of plants with special reference to herbage causing "pining" and "bush-sickness." Jour. Agr. Sci. 18: 363-368.
Godfrey, G. H. 1923. (1152)
A phytophthora foot rot of rhubarb. Jour. Agr. Res. 23: 1-26.
———. 1923. (1153)
Gray mold of castor bean. Jour. Agr. Res. 23: 679-715.
———. 1926. (1154)
Effect of temperature and moisture on nematode root knot. Jour. Agr. Res. 33: 223-254.
——— and H. T. Morita. 1929. (1155)
Effects of some environmental factors on the root-knot nematode. Phytopath. 19: 83-84. (Abst.).
Goff, E. S. 1896. (1156)
The tip-burn of potatoes. Wis. Agr. Exp. Sta. Ann. Rept. 13, 240-243.
Gokhble, V. G., R. S. Kasargode, and S. L. Ajrekar. 1916. (1157)
The "band" disease of betel-nut palms in the Konkan. Poona Agr. Col. Mag. 8: 49-53.
Golubev, B. 1926. (1158)
Zur Frage über die verschiedene Reaktion der Böden auf Kalkdüngung im Zusammenhang mit der positiven und Schädlichen Wirkung des Kalkes auf die Entwicklung von Pflanzen. (Russian) Ergeb. Veg. Lab. Landw. Akad., Timirjazinsk, 13: 86-114.
Goodspeed, T. H., J. M. McGee, and R. W. Hodgson. 1918. (1159)
Note on the effect of illuminating gas and its constituents in causing abscission of flowers in Nicotiana and citrus. Univ. Calif. Publ. Bot. 5: 439-450.
Goodwin, B. G. 1929. (1160)
Blister disease or cracking of apples. Successful remedial measures in Nelson district. Jour. Agr. New Zealand 39: 305-307.
Gordon, W. L. 1930. (1161)
Effect of temperature on host reactions to physiologic forms of Puccinia graminis avenae Erikss. & Henn. Sci. Agr. 11: 95-103.
Goss, R. W. 1921. (1162)
Temperature and humidity studies of some Fusaria rots of the Irish potato. Jour. Agr. Res. 22: 65-79.
———. 1922. (1163)
Relation of environment and other factors to potato wilt caused by Fusarium oxysporum. Nebr. Agr. Exp. Sta. Res. Bull. 23, 1-84.
———. 1923. (1164)
Potato diseases in Nebraska. Nebr. Agr. Exp. Sta. Bull. 186, 1-32.
———. 1924. (1165)
Effect of environment on potato degeneration diseases. Nebr. Agr. Exp. Sta. Res. Bull. 26, 1-40.
———. 1924. (1166)
Potato wilt and stem-end rot caused by Fusarium eumartii. Nebr. Agr. Exp. Sta. Res. Bull. 27, 1-83.
———. 1930. (1167)
The symptoms of spindle tuber and unmottled curly dwarf of the potato. Nebr. Agr. Exp. Sta. Res. Bull. 47, 1-39.
——— and G. L. Peltier. 1925. (1168)
Further studies of the effect of environment on potato degeneration diseases. Nebr. Agr. Exp. Sta. Res. Bull. 29, 1-32.
Gossard, H. A. and R. C. Walton. 1917. (1169)
Fire-blight infection. Ohio Agr. Exp. Sta. Mo. Bull. 2 (11): 357-364.

Gourley, J. H. and G. T. Nightingale. 1921. (1170)
The effects of shading some horticultural plants. N. H. Agr. Exp. Sta. Tech. Bull. 18, 1-22.
Graebner, P. 1907. (1171)
Über einige nichtpärasitäre Pflanzenkrankheiten des Sommers 1907. Jahresbr. Ver. Angew. Bot. 5: 226-233.
————. 1908. (1172)
Einige wenigbeachtete nichtpärasitäre Pflanzenkrankheiten. Gartenflora 57: 420-430.
————. 1909. (1173)
Wirkung von Frösten während der Vegetation-periode. Zeitschr. Forst. u. Jagdw. 41: 421-431.
————. 1921. (1174)
Lehrbuch der Nichtpärasitären Pflanzenkrankheiten. Berlin. 1920. Also Forstwiss. Centbl. 43: 184-185. (Abst.).
————. 1924. (1175)
Ueber einige Pflanzenkrankheiten des umgewöhnlichen Sommers 1923 und des folgenden Winters. Denkschrift zum 100-jahrigen Bestehen der Höheren Gärtnerlehranstalt. Berlin-Dahlem fruher Wildpark.
Graewitz, F. 1898. (1176)
Ueber den Einfluss des Lichtes auf der Entwicklung einiger Pilze. Inaug. Diss. Leipsig.
Graffin, R. 1920. (1177)
Sur la disparition de l'orme sous les gaz de guerre. Compt. Rend. Acad. Agr. France 6: 609.
Graham, V. O. 1927. (1178)
Ecology of fungi in the Chicago region. Bot. Gaz. 83: 267-287.
Grainger, J. and G. Cockerham. 1930. (1179)
Some properties of the virus extract of dock mosaic. Proc. Leeds Phil. Soc. 2: 120-124.
Gram, E. 1922. (1180)
Forsog med avlsstedets indflydelse paa Kertoffelens bladrullesyge. Tidsskr. Planteavl. 28: 769-806.
————. 1926. (1181)
Seed disinfection II. Experiments with mangold and sugar beet seed 1920-1925. (Trans. title). Statens Försögsv. Plantenk., Beretning, 197: 1-66.
————. 1930. (1182)
Forsog med plantesygdomme og jordtreathed. Tidsskr. Planteavl. 36: 291-333.
————, C. A. Jorgensen, and S. Rostrup. 1928. (1183)
Oversigt over sygdomme hos landbrugets og havebrugets kulturplanter i 1927. Tidsskr. Planteavl. 34: 778-836.
Gratz, L. O. 1925. (1184)
Wire stem of cabbage. N. Y. (Cornell) Agr. Exp. Sta. Mem. 85, 1-60.
————. 1930. (1185)
Disease and climate as pertaining to the Florida and Maine potato sections. Phytopath. 20: 267-288.
———— and R. Bonde. 1927. (1186)
Infection of potato tubers by Alternaria solani in relation to storage conditions. Fla. Agr. Exp. Sta. Bull. 187, 167-182.
Graves, A. H. 1915. (1187)
Root rot of coniferous seedlings. Phytopath. 5: 213-217.
————. 1924. (1188)
Disease and resistance in plants. Brooklyn Bot. Gard. Rec. 13: 27-31.
Gray, J. 1913. (1189)
Takeall and oats. Jour. Dept. Agr. So. Aust. 17: 631-633.
Green, S. B. 1895. (1190)
Potatoes: scab, blight and internal brown rot; apple tree sun scald; raspberry cane rust. Minn. Agr. Exp. Sta. Bull. 39, 208-213, 217-222, 230-231.
Green, W. J. and F. H. Ballou. 1904. (1191)
Winter-killing of peach trees. Ohio Agr. Exp. Sta. Bull. 157, 115-134.
Greene, L. 1918. (1192)
1917 and 1918 winter injury to apple trees. Iowa State Hort. Soc. Rept. 53: 119-123.
Gregoire, A. 1925. (1193)
Bodenazidität und Zuckerrübenbau. Zeitschr. Ver. Deut. Zuck. Indus. 62: 504-510.
Gregory, C. T. 1915. (1194)
Studies of Plasmopora viticola. Intern. Cong. Vitic. Rept., 126-150.

———. 1925. (1195)
Plant food and its effect on disease. Better Crops 4 (2): 20-21.
Griffith, J. G. 1920. (1196)
Diseases of the Chile pepper. N. M. Agr. Exp. Sta. Ann. Rept. 31, 12-13.
Griffiths, A. 1911. (1197)
Bitter pit in apples. Agr. Gaz. Tasmania 19: 290-291.
Griffiths, M. A. 1924. (1198)
Physiological studies on flag smut of wheat. Phytopath. 14: 39. (Abst.).
———. 1924. (1199)
Experiments with flag smut of wheat and the causal fungus, Urocystis tritici Ecke. Jour. Agr. Res. 27: 425-449.
Gropp. 1929. (1200)
Beobachtungen über den Zusammenhang von Bodenreaktionen und Zuckerrübenaufgang im Jahre 1929. Deutsch Zukerind. 54: 1065-1068.
Grossenbacher, J. G. 1909. (1201)
Crown-rot, arsenical poisoning and winter-injury. N. Y. (Geneva) Agr. Exp. Sta. Tech. Bull. 12, 367-411.
———. 1912. (1202)
Crown-rot of fruit trees; Field studies. N. Y. (Geneva) Agr. Exp. Sta. Tech. Bull. 23, 1-59.
———. 1915. (1203)
Some neglected phases of phytopathology. Phytopath. 5: 155-162.
Groth, B. H. A. 1910. (1204)
Contribution to the study of bordeaux injury on peaches. N. J. Agr. Exp. Sta. Bull. 232, 1-19.
Grouven. 1871. (1205)
Über den Einfluss der Mansfeld-Hettstedter Kupferhüttenwerke auf die umgebenden Landwirtschaftlich Kulturen. Fühling's Landw. Zeit. 20: 534-539.
Guba, E. F. 1924. (1206)
Phyllosticta leaf spot, fruit blotch and canker of the apple; its etiology and control. Phytopath. 14: 234-237.
———. 1926. (1207)
Injury to glasshouse plants from hydrocyanic acid gas, following the application of copper fungicide. Phytopath. 16: 633-634.
——— and P. J. Anderson. 1919. (1208)
Phyllosticta leaf spot and damping off of snapdragons. Phytopath. 9: 315-325.
Guérin, P. and C. Lormand. 1920. (1209)
Action du chlore et de diverses vapeurs sur les vegetaux. Compt. Rend. Acad. Sci. (Paris) 170: 401-403.
Guerrapain, A. and A. Demolon. 1913. (1210)
Enquête et observations sur la maladie du pietin (pied noir des céréales.) Jour. Agr. Prat., 2nd Ser., 26: 566-567, 627-630.
Guillon, J. M. 1895. (1211)
Experiences sur le traitement de la chlorose. Prog. Agr. et Vitic. 12: 408-417.
Guittonneau, G. 1930. (1212)
L'acide phosphorique et les maladies de carence des plantes arbustives. Rev. Vitic. 72: 61-68.
Gunderson, A. J. 1919. (1213)
The pruning of winter-injured peach trees. Ill. Agr. Exp. Sta. Bull. 218, 381-394.
Günther. 1927. (1214)
Beobachtungen über das Auftreten des Gelbrostes in Hessen und seine Bekämpfung durch Kalidüngung. Ernähr. Pflanze 23: 52-53.
Güssow, H. T. 1908. (1215)
The predisposition of plants to parasitic diseases. Proc. Assoc. Econ. Biol. 1 (4): 158-170.
———. 1911. (1216)
Report of Dominion Botanist. Canada Exp. Farms Rept., 237-274.
———. 1914. (1217)
Report of Dominion Botanist. Canada Exp. Farms Rept., 831-849.
———. 1915. (1218)
Effect of wet season on wheat and potatoes. Agr. Gaz. Canada 2: 932-934.
———. 1918. (1219)
Drouth injury to McIntosh apple. Phytopath. 8: 490-491.

———. 1923. (1220)
Root asphyxiation. Canada Cent. Exp. Farms, Bot. Div. Rept., 1922, 9-10.
——— and I. L. Conners. 1927. (1221)
Smut diseases of cultivated plants, their cause and control. Dom. Canada Dept. Agr. Bull. 81, 1-79.
Gustafson, F. G. 1926. (1222)
Plant distribution as affected by the hydrogen-ion concentration of the soil. Mich. Acad. Sci. Paper 6: 237-245.
Guthrie, F. B. 1910. (1223)
Injurious substances in the soil. Agr. Gaz. N. S. Wales 21: 434-441.
——— and L. Cohen. 1910. (1224)
Note on the occurrence of manganese in soil, and its effect on grass. Agr. Gaz. N. S. Wales 21: 219-222.
——— and R. Helms. 1903. (1225)
Pot experiments to determine the limits of endurance of different farm-crops to certain injurious substances. Wheat. Agr. Gaz. N. S. Wales 14: 114-120.
——— and ———. 1904. (1226)
Pot experiments to determine the limits of endurance of different farm-crops to certain injurious substances. Maize. Agr. Gaz. N. S. Wales 15: 29-32.
——— and ———. 1905. (1227)
Pot experiments to determine the limits of endurance of different farm-crops to certain injurious substances. Barley and rice. Agr. Gaz. N. S. Wales 16: 853-860.
Guyot, L. 1926. (1228)
Essais de lutte pratique contre la chlorose du pêcher. Rev. Path. Vég. et Ent. Agr. 13: 66-69.
Guyot, A. L. 1930. (1229)
De l'influence de quelques opérations culturales sur le développement du piétin du Blé en 1928-1929. Rev. Path. Vég. et Ent. Agr. 17: 52-62.
Haas, A. R. C. 1929. (1230)
Composition of walnut trees as affected by certain salts. Bot. Gaz. 87: 364-396.
———. 1929. (1231)
Composition of avocado trees in relation to chlorosis and tip-burn. Bot. Gaz. 87: 422-430.
———. 1929. (1232)
Mottle-leaf in citrus artificially produced by lithium. Bot. Gaz. 87: 630-641.
———. 1929. (1233)
Toxic effect of boron on fruit trees. Bot. Gaz. 88: 113-131.
———. 1930. (1234)
Boron as an essential element for healthy growth of citrus. Bot. Gaz. 89: 410-413.
———, L. D. Batchelor, and E. E. Thomas. 1928. (1235)
Yellows or little-leaf of walnut trees. Bot. Gaz. 86: 172-192.
——— and L. J. Klotz. 1930. (1236)
Some pathological changes induced in citrus by a deficiency of boron. Phytopath. 20: 855-856. (Abst.).
——— and H. S. Reed. 1927. (1237)
Relations of desiccating winds to fluctuations in ash content of citrus leaves and phenomenon of mottle-leaf. Bot. Gaz. 83: 161-172.
——— and E. E. Thomas. 1928. (1238)
Effect of sulfate on lemon leaves. Bot. Gaz. 86: 345-354.
Haasis, F. W. 1922. (1239)
Frost heaving of western yellow pine seedlings. Ecology 4: 378-390.
Haastert, H. 1927. (1240)
Ueber das Pflanzenwachstum auf sauren Böden. Zeitschr. Pflanzenernähr. u. Düng. (A) 9: 265-314.
Haberlandt, G. 1875. (1241)
Die Abhangigkeit der Ernten von der Grösse und Verteilung der Niederschläge. Oesterr. Landw. Wochenbl., 352.
Haenseler, C. M. 1924. (1242)
Pea root rot studies. N. J. Agr. Exp. Sta. Ann. Rept. 45, 403-414.
———. 1928. (1243)
Effect of soil reaction on Verticillium wilt of eggplant. N. J. Agr. Exp. Sta. Ann. Rept. 49, 267-273.
——— and W. H. Martin. 1925. (1244)
Arsenical injury of the peach. Phytopath. 15: 321-331.

Hagem, O. 1910. (1245)
Untersuchungen über Norwegische Mucorineen II. Vidensk. Selsk. Skr. Moth. Naturw. Klasse, 1910, (4), 1-152.
Hagen, M. 1895. (1246)
Flurbeschädigung durch Rauchgase. Zeitschr. Angew. Chemie 8: 279-280.
———. 1896. (1247)
Zur beeinträchtigung der Landwirtschaft durch Rauch von Fabrikschornsteinen. Chem. Zeit. 20: 238-239, 267-268, 283-284.
Hahmann, C. 1929. (1248)
Schädigung an Cinerarien durch Begasung mit Cyanogas. Blumen- u. Pflanzenbau 44: 108-110.
Hahn, G. G. 1926. (1249)
Phomopsis juniperovora and closely related strains on conifers. Phytopath. 16: 899-914.
Hahne, J. 1926. (1250)
Untersuchungen über die Keimungsbedingungen von Tilletiasporen. Kühn-Arch. Arb. Landw. Inst., Univ. Halle, 9: 157-263.
Hall, C. J. J. van. 1902. (1251)
Bacillus subtilis (Ehrenberg) Cohn und Bacillus vulgatus (Flügge) Mig. als Pflanzenparasiten. Centbl. Bakt. 9: 642-652.
———. 1910. (1252)
Sunlight and fungi. Proc. Agr. Soc. Trinidad and Tobago 10: 406-413.
Hallenbeck, C. 1919. (1253)
Minimum temperatures sustained by apricots during March 1919, in the Pecos Valley, N. Mex. U. S. Dept. Agr., Mo. Weather Rev. 47: 240.
Halma, F. F. and H. S. Fawcett. 1925. (1254)
Relation of growth of Helminthosporium sacchari to maintained temperatures. Phytopath. 15: 463-469.
Halsted, B. 1888. (1255)
Downy mildews in a dry season. Iowa State Agr. Col., Bot. Dept. Bull. (Feb.), 95-102.
Halsted, B. D. 1889. (1256)
Peronosporeae and rainfall. Jour. Mycol. 5: 6-11.
———. 1894. (1257)
Weather versus injurious fungi. Agr. Sci. 8: 292-297.
———. 1895. (1258)
Field experiments with potatoes. N. J. Agr. Exp. Sta. Bull. 112, 1-20.
———. 1897. (1259)
Experiments in shading. N. J. Agr. Exp. Sta. Ann. Rept. 10, 344-354.
———. 1898. (1260)
Fungi as related to weather. N. J. Agr. Exp. Sta. Ann. Rept. 19, 359-370.
———. 1898. (1261)
Mycological notes. Bull. Torrey Bot. Club 25: 158-162.
———. 1898. (1262)
Exposure and fungous diseases. Bull. Torrey Bot. Club 25: 622-625.
———. 1898. (1263)
Influence of wet weather upon parasitic fungi. Proc. Amer. Assoc. Adv. Sci. 47: 416.
———. 1899. (1264)
The influence of wet weather upon parasitic fungi. Bull. Torrey Bot. Club 26: 381-389.
———. 1901-1904. (1265)
Fungi as related to weather. N. J. Agr. Exp. Sta. Ann. Rept. 21, 475-476, 1900; 22, 440-442, 1901; 23, 417-418, 1902; 24, 536-540, 1903; 25, 535-538, 1904.
———. 1910. (1266)
The effect of a midsummer drought upon ligneous plants. N. J. Agr. Exp. Sta. Ann. Rept. 31, 265-273.
———, E. J. Owen, and J. K. Shaw. 1905. (1267)
Fungi as related to weather. N. J. Agr. Exp. Sta. Ann. Rept. 26, 510-516.
Hamberg, H. E. 1904. (1268)
Die Summernacheröste in Schweden 1871-1900. K. Svenska Vetensk. Akad. Handl. 38 (1): 1-94.
Hammarlund, C. 1925. (1269)
Zur Genetik, Biologie und Physiologie einiger Erysiphaceen. Hereditas, Lund, Sweden, 6: 1-126.
———. 1930. (1270)
Rostsvampar på Mahonia (Puccinia mirabilissima Pech och P. graminis Pers.). Bot. Not., 1930, (5), 380-407.

Hammond, H. S. 1910. (1271)
Fertilizers and disease. Quebec Soc. Prot. Plants Ann. Rept. 2, 36-41.
Hance, F. E. and G. R. Stewart. 1928. (1272)
The possible influence of zinc and phosphate in giving resistance to eye spot in H109 cane. Hawaiian Planters' Rec. 32: 11-14.
Hannay, A. M. 1931. (1273)
The influence of weather on crops. 1900-1930. U. S. Dept. Agr., Misc. Publ. 118, 1-245.
Hannig, E. 1913. (1274)
Untersuchungen über das Abstoffen von Blüten unter dem Einfluss äusserer Bedingungen. Zeitschr. Bot. 5: 417-469.
Hansen, A. 1905. (1275)
Experimentelle Untersuchungen uber die Beschädigung der Blätter durch Wind. Zeitschr. Pflanzenkr. 15: 113-114. (Abst.).
Hansen, H. N. 1929. (1276)
Etiology of the pink-root disease of onions. Phytopath. 19: 691-704.
Hansen, N. E. 1899. (1277)
Root-killing of apple trees. S. D. Agr. Exp. Sta. Bull. 65, 1-32.
Hansen, T. S., et al. 1923. (1278)
A study of the damping-off disease of coniferous seedlings. Minn. Agr. Exp. Sta. Tech. Bull. 15, 1-35.
Hansson, F. 1927. (1279)
Soil and cane composition in relation to Lahaina failure at Waipio Substation. Assoc. Hawaiian Sugar Technol. Rept. 6, 33-37.
Hansteen, B. 1910. (1280)
Über das verhalten der Kulturpflanzen zu den Bodensalzen. Jahrb. Wiss. Bot. 47: 289-376.
Hanzawa, J. 1912. (1281)
Studien über einige Rhizopus—Arten. Mycol. Centbl. 1: 406-409.
Harding, H. A. and W. J. Morse. 1909. (1282)
The bacterial soft rot of vegetables. N. Y. (Geneva) Agr. Exp. Sta. Tech. Bull. 11, 251-368.
———— and ————. 1910. (1283)
The bacterial soft rot of certain vegetables I. The mutual relationships of the causal organisms. Vt. Agr. Exp. Sta. Bull. 147, 243-279.
Hardy, F. 1926. (1284)
The rôle of aluminum in soil infertility and toxicity. Jour. Agr. Sci. 16: 616-631.
Harlay, A. and V. Harlay. 1895. (1285)
Note concernant la reapparition des champignons après la périod de sécheresse de l'année 1895. Bull. Soc. Mycol. France 11: 244-246.
Harmer, P. M. 1927. (1286)
Prevention of wind injury to crops on muck land. Mich. Agr. Exp. Sta. Circ. Bull. 103, 1-8.
Harris, F. S. 1915. (1287)
Effect of alkali salts in soils on the germination and growth of crops. Jour. Agr. Res. 5: 1-53.
Harris, H. C. 1929. (1288)
Soil acidity studies. Del. Agr. Exp. Sta. Bull. 162, 20.
Harris, J. A. 1928. (1289)
Studies of elements required in only small quantities for the development of the green plant. Activities Bot. Dept., Univ. Minn., 1927, 32-40.
Harrison, F. C. 1907. (1290)
A bacterial soft rot of the potato, caused by Bacillus solanisaprus. Centbl. Bakt. 17: 34-39, 120-128, 166-174, 384-395,
Harrison, J. E. 1926. (1291)
The Jonathan apple in cool storage. Jour. Dept. Agr. Victoria 24: 31-38.
Harrison, K. A. 1925. (1292)
Preliminary report on a disease of common bean. Quebec Soc. Prot. Plants Ann. Rept. 17, 62-69.
Harshberger, J. W. 1921. (1293)
Open winter and plant life U. S. Dept. Agr., Mo. Weather Rev. 49: 20-21.

Hart, H. 1926. (1294)
Factors affecting the development of flax rust, Melampsora lini (Pers.) Lev. Phytopath. 16: 185-205.
Harter, L. L. 1909. (1295)
The control of malnutrition diseases of truck crops. Va. Truck Exp. Sta. Bull. 1, 1-16.
————. 1913. (1296)
The foot-rot of the sweet potato. Jour. Agr. Res. 1: 251-274.
————. 1916. (1297)
Sweet-potato scurf. Jour. Agr. Res. 5: 787-791.
————. 1916. (1298)
Storage rots of economic aroids. Jour. Agr. Res. 6: 549-571.
————. 1917. (1299)
Podblight of the lima bean caused by Diaporthe phaseolorum. Jour. Agr. Res. 11: 473-504.
———— and E. C. Field. 1913. (1300)
A dry rot of sweet potatoes caused by Diaporthe batatatis. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 281, 1-37.
———— and L. R. Jones. 1923. (1301)
Cabbage diseases. U. S. Dept. Agr., Farmers' Bull. 1351, 1-28.
————, J. L. Weimer, and J. M. R. Adams. 1918. (1302)
Sweet-potato storage rots. Jour. Agr. Res. 15: 337-368.
————, ————, and J. I. Lauritzen. 1921. (1303)
The decay of sweet potatoes (Ipomoea batatas) produced by different species of Rhizopus. Phytopath. 11: 279-284.
———— and ————. 1921. (1304)
Susceptibility of the different varieties of sweet potatoes to decay by Rhizopus nigricans and Rhizopus tritici. Jour. Agr. Res. 22: 511-515.
———— and ————. 1922. (1305)
Decay of various vegetables and fruits by different species of Rhizopus. Phytopath. 12: 205-212.
———— and ————. 1923. (1306)
Some physiological variations in strains of Rhizopus nigricans. Jour. Agr. Res. 26: 363-371.
————, ———— and J. I. Lauritzen. 1926. (1307)
The comparative susceptibility of sweet-potato varieties to black rot. Jour. Agr. Res. 32: 1135-1142.
———— and W. A. Whitney. 1926. (1308)
Influence of soil temperature and soil moisture on the infection of sweet potatoes by the black-rot fungus. Jour. Agr. Res. 32: 1153-1160.
———— and ————. 1927. (1309)
Relation of soil temperature and soil moisture to the infection of sweet potatoes by the stem-rot organisms. Jour. Agr. Res. 34: 435-441.
———— and ————. 1927. (1310)
Mottle necrosis of sweet potatoes. Jour. Agr. Res. 34: 893-914.
———— and ————. 1929. (1311)
Masking of sweet-potato mosaic. Phytopath. 19: 933-942.
Hartig, R. 1874. (1312)
Wichtige Krankheiten der Waldbäume. Berlin.
————. 1880. (1313)
Ueber die Einwirkung des Frostes auf die Pflanzen. Flora 38: 177.
————. 1894. (1314)
Sonnenrisse und Frostrisse an der Eiche. Zeitschr. Pflanzenkr. 4: 352-353. (Abst.).
————. 1894. (1315)
Diseases of trees. (Translation). London.
————. 1897. (1316)
Untersuchungen über Blitzschläge in Waldbäumen. Forstl. Naturw. Zeitschr. 6: 97-120, 145-165, 193-206.
Hartley, C. 1912. (1317)
Notes on the winterkilling of forest trees. Univ. of Nebr. Forest Club Annual 4: 39-50.
————. 1913. (1318)
The blights of coniferous nursery stock. U. S. Dept. Agr., Dept. Bull. 44, 1-21.
————. 1916. (1319)
Non-parasitic stem lesions on seedlings. Phytopath. 6: 308-309. (Abst.).

———. 1918. (1320)
Stem lesions caused by excessive heat. Jour. Agr. Res. 14: 595-604.
———. 1921. (1321)
Damping-off in forest nurseries. U. S. Dept. Agr., Dept. Bull. 934, 1-99.
———. 1927. (1322)
Pale dwarf disease of peanut (Arachis hypogaea). Phytopath. 17: 217-225.
——— and T. C. Merrill. 1915. (1323)
Storm and drought injury to foliage of ornamental trees. Phytopath. 5: 20-29.
——— and R. G. Pierce. 1917. (1324)
The control of damping-off of coniferous seedlings. U. S. Dept. Agr., Dept. Bull. 453, 1-32.
——— et al. 1918. (1325)
Seedling diseases of conifers. Jour. Agr. Res. 15: 521-558.
Hartman, H., R. H. Robinson, and S. M. Zeller. 1928. (1326)
The removal of spray residue from apples and pears. Ore. Agr. Exp. Sta. Bull. 234, 1-38.
——— et al. 1929. (1327)
The occurrence and prevention of calyx injury in apples from the Hood River Valley. Ore. Agr. Exp. Sta. Bull. 242, 1-24.
Hartmann, A. 1913. (1328)
Takeall. Jour. Dept. Agr. So. Aust. 17: 249-250.
Hartt, C. E. 1929. (1329)
Potassium deficiency in sugar cane. Bot. Gaz. 88: 229-261.
Hartwell, B. L. and F. R. Pember. 1908. (1330)
The relative toxicity of ferrous sulfate to barley and rye seedlings. R. I. Agr. Exp. Sta. Ann. Rept. 21, 286-294.
——— and ———. 1918. (1331)
Aluminum as a factor influencing the effect of acid soils on different crops. Jour. Amer. Soc. Agron. 10: 45-47.
——— and ———. 1918. (1332)
The presence of aluminum as a reason for the difference in the effect of so-called acid soil on barley and rye. Soil Sci. 6: 259-277.
———, ———, and L. P. Howard. 1919. (1333)
Lime requirements as determined by the plant and by the chemist. Soil Sci. 7: 279-282.
Harvey, E. M. and R. C. Rose. 1915. (1334)
The effects of illuminating gas on root systems. Bot. Gaz. 60: 27-44.
Harvey, R. B. 1918. (1335)
Hardening process in plants and developments from frost injury. Jour. Agr. Res. 15: 83-111.
———. 1923. (1336)
Cambial temperatures of trees in winter and their relation to sun scald. Ecology 4: 261-265.
———. 1923. (1337)
Conditions for heat canker and sunscald in plants. Minn. Horticulturist 51: 331-333.
———. 1924. (1338)
Sun scald of tomatoes. Minn. Studies in Plant Sci. 5: 229-235.
———. 1925. (1339)
Conditions for heat canker and sunscald in plants. Jour. Forestry 23: 392-394.
Haselhoff, E. 1892. (1340)
Ueber die schädigende Wirkung von kupfersulfat—und kupfernitrathaltigem Wasser auf Boden und Pflanzen. Landw. Jahrb. 21: 263-276.
———. 1893. (1341)
Versuche über die schädliche Wirkung von nickelhaltigem Wasser auf Pflanzen. Landw. Jahrb. 22: 862-867.
———. 1907. (1342)
Versuche über die Einwirkung von Flugstaub auf Boden und Pflanzen. Landw. Vers. Sta. 67: 157-206.
———. 1908. (1343)
Versuche über die Einwirkung von Flugstaub auf Gras. Landw. Vers. Sta. 69: 477-482.
———. 1908. (1344)
Die Beschädigung von Boden und Pflanzen durch Flugstaub. Fühling's Landw. Zeit. 57: 609-615.

———. 1913. (1345)
Ueber die Einwirkung von Borverbindungen auf das Pflanzenwachstum. Landw. Vers. Sta. 79-80: 399-429.
——— and Fr. Gössel. 1904. (1346)
Uber die Einwirkung von schwefeliger Säure, Zinkoxyd, Zinksulfate auf Boden und Pflanzen. Zeitschr. Pflanzenkr. 14: 193-201.
——— and G. Lindau. 1903. (1347)
Die Beshädigung der Vegetation durch Rauch. Leipsig.
Haskell, R. J. 1919. (1348)
Fusarium wilt of potato in the Hudson River Valley, New York. Phytopath. 9: 223-260.
Haskins, H. D. 1912. (1349)
Tobacco injury due to malnutrition or over-fertilization. Mass. Agr. Exp. Sta. Ann. Rept. 24 (2), 35-46.
Hasper, E. 1925. (1350)
Biologie und Bekämpfung des Cladosporium fulvum Cooke auf Solanum lycopersicum. Zeitschr. Pflanzenkr. 35: 112-118.
Hassebrauk, K. 1930. (1351)
Über die Abhängigkeit der Rostinfektion von der Mineralsalzernährung der Getreidepflanze. Angew. Bot. 12: 23-35.
Hattori, H. 1901. (1352)
Studien ueber die Einwirkung des Kupersulfats auf einige Pflanzen. Jour. Col. Sci. Imp. Univ. (Tokyo) 15: 371-394.
Hawkins, L. A. 1916. (1353)
The disease of potatoes known as "leak". Jour. Agr. Res. 6: 627-639.
———. 1927. (1354)
Orange freezing a hazard in all United States groves. U. S. Dept. Agr. Yrbk., 1926, 559-560.
——— and C. E. Sando. 1920. (1355)
Effect of temperature on the resistance to wounding of certain small fruits and cherries. U. S. Dept. Agr., Dept. Bull. 830, 1-6.
Haymaker, H. H. 1928. (1356)
Pathogenicity of two strains of the tomato-wilt fungus, Fusarium lycopersici Sacc. Jour. Agr. Res. 36: 675-695.
———. 1928. (1357)
Relation of toxic excretory products from two strains of Fusarium lycopersici Sacc. to tomato wilt. Jour. Agr. Res. 36: 697-719.
Haywood, J. K. 1905. (1358)
Injury to vegetation by smelter fumes. U. S. Dept. Agr., Bur. Chem. Bull. 89, 1-23.
———. 1907. (1359)
Smelter smoke. Science 26: 476-478.
———. 1907. (1360)
Injury to vegetation and animal life by smelter fumes. Jour. Amer. Chem. Soc. 29: 998-1009
———. 1908. (1361)
Injury to vegetation and animal life by smelter wastes. U. S. Dept. Agr., Bur. Chem. Bull. 113, 1-40.
Headden, W. P. 1908. (1362)
Arsenical poisoning of fruit trees. Colo. Agr. Exp. Sta. Bull. 131, 1-27.
———. 1910. (1363)
The fixation of nitrogen in some Colorado soils. Colo Agr. Exp. Sta. Bull. 155, 1-48.
———. 1910. (1364)
Arsenical poisoning of fruit trees. Colo. Agr. Exp. Sta. Bull. 157, 1-56.
———. 1915. (1365)
Yellow-berry in wheat: Its cause and prevention. Colo. Agr. Exp. Sta. Bull. 205, 1-38.
———. 1916. (1366)
A study of Colorado wheat. Colo. Agr. Exp. Sta. Bull. 219, 1-131.
———. 1916. (1367)
Yellow-berry in wheat: Its cause as indicated by its composition. Proc. Soc. Prom. Agr. Sci. 36: 41-56.
———. 1924. (1368)
Some orchard conditions affected by arsenicals, marls and other factors. Colo. Agr. Exp. Sta. Bull. 294, 1-31.

Heald, F. D. 1896. (1369)
On the toxic effect of dilute solutions of acids and salts upon plants. Bot. Gaz. 22: 125-153.
————. 1921. (1370)
Non-parasitic diseases of the apple in Washington. Proc. Wash. State Hort. Assoc. 16: 146-158.
————. 1926. (1371)
Winter injury to fruit trees. Proc. Wash. State Hort. Assoc. 21: 61-71.
————. 1926. (1372)
Manual of plant diseases. New York.
———— and E. F. Gaines. 1930. (1373)
The control of bunt or stinking smut of wheat. Wash. Agr. Exp. Sta. Bull. 241, 1-30.
————, M. W. Gardner, and R. A. Studhalter. 1915. (1374)
Air and wind dissemination of ascospores of the chestnut-blight fungus. Jour. Agr. Res. 3: 493-526.
———— and D. C. George. 1918. (1375)
The wind dissemination of the spores of bunt or stinking smut of wheat. Wash. Agr. Exp. Sta. Bull. 151, 1-23.
———— and R. C. Walton. 1914. (1376)
The expulsion of ascospores from the perithecia of the chestnut blight fungus, Endothia parasitica (Murr.) And. Amer. Jour. Bot. 1: 499-521.
———— and H. M. Woolman. 1915. (1377)
Bunt or stinking smut of wheat. Wash. Agr. Exp. Sta. Bull. 126, 1-24.
Hecke, L. 1898. (1378)
Untersuchungen über Phytophthora infestans DeBy. als Ursache der Kartoffelkrankheit. Jour. Landw. 46: 71-74, 97-142.
————. 1909. (1379)
Der Einfluss von Sorte und Temperatur auf dem Steinbrandbefall. Zeitschr. Landw. Versuchw. Oesterr. 12: 49-66.
Hector, G. P. 1927. (1380)
Annual report of the economic botanist to the government of Bengal for the year 1925-26. Dept. Agr. Bengal Ann. Rept., 1925-26 (Append. 1), 1-4.
Hedgecock, G. C. 1902. (1381)
The prevalence of Alternaria in Nebraska and Colorado during the drouth of 1901. Science 16: 136-137.
————. 1910. (1382)
Field studies of the crown-gall and hairy-root of the apple tree. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 186, 1-108.
————. 1912. (1383)
Winter-killing and smelter-injury in the forests of Montana. Torreya 12: 25-30.
————. 1914. (1384)
Injury by smelter smoke in southeastern Tennessee. Jour. Wash. Acad. Sci. 4: 70-71.
Hedges, F. 1926. (1385)
Bacterial wilt of beans (Bacterium flaccumfaciens Hedges), including comparisons with Bacterium phaseoli. Phytopath. 16: 1-22.
————. 1928. (1386)
Bacterial halo spot of Kudzu caused by Bacterium puerariae Hedges. Jour. Agr. Res. 36: 419-428.
Hedrick, U. P. 1897. (1387)
Prunes in Oregon. Gumming of the prune tree. Ore. Agr. Exp. Sta. Bull. 45, 63-75.
————. 1907. (1388)
Bordeaux injury. N. Y. (Geneva) Agr. Exp. Sta. Bull. 287, 105-189.
————. 1908. (1389)
The relation of weather to the setting of fruit; with blooming data for 866 varieties of fruit. N. Y. (Geneva) Agr. Exp. Sta. Bull. 299, 59-138.
Heidema, J. 1923. (1390)
Beschadiging van vlas door hitte en nachtvrost. Tijdschr. Plantenziekten 29: 145-148.
Heine, C. 1929. (1391)
Die Einwirkung des Frostes Winter 1928-29 auf Unterlage und Sorten der Süsskirschenbäume im mitteldeutschen Kirschenanbaugebiet. Obst- u. Gemüsebau 75: 188-191.
Heinicke, A. J. 1917. (1392)
Factors influencing the abscission of flowers and partially developed fruits of the apple (Pyrus malus L.). N. Y. (Cornell) Agr. Exp. Sta. Bull. 393, 43-114.

———. 1920. (1393)
The seed content and position of the fruit as factors influencing stippen in apples. Proc. Amer. Soc. Hort. Sci. 17: 225-232.
Heitz, K. 1927. (1394)
Fusskrankheit bei Getreide. Illus. Landw. Zeit. 47: 488-489.
Hemenway, A. F. 1926. (1395)
Late frost injury to some trees in central Kentucky. Amer. Jour. Bot. 13: 364-366.
Hemmi, T. 1918. (1396)
Temperature relations of some fungi causing anthracnose diseases. Sapporo Agr. and Dendr. Soc. Rept., 37-65.
———. 1918. (1397)
On the gloeosporiose of Caladium. Trans. Sapporo Nat. Hist. Soc. 7: 41-70.
———. 1920. (1398)
Beiträge zur Kenntniss der Morphologie und Physiologie der japanischen Gloeosporien. Jour. Col. Agr., Hokkaido Imp. Univ., Japan, 9 (1): 1-159.
———. 1923. (1399)
On the relation of temperature to the damping-off of garden-cress seedlings by Pythium deBaryanum and Corticium vagum. Phytopath. 13: 273-282.
———. 1930. (1400)
On the relation of soil moisture to the development of the rice blast disease. Jap. Jour. Bot. 5: 4. (Abst.).
——— and T. Abe. 1928. (1401)
An outline of the investigations on the seed and seedling-rot of rice caused by a water-mould Achlya prolifera. Jap. Jour. Bot. 4: 113-123.
——— and S. Endo. 1930. (1402)
On the possibility of soil infection of Piricularia oryzae and its relation to soil moisture. Jap. Jour. Bot. 5: 4. (Abst.).
———, S. Hirayama, and T. Nojima. 1929. (1403)
Studies on Fomes ulmarius causing the heartwood-rot of Cryptomeria japonica. Bot. Mag. (Tokyo) 43: 657-675.
——— and H. Nakamura. 1927. (1404)
Studies on the Septorioses of plants. I. Comparison of two different species of Septoria causing leaf-spot diseases of the cultivated chrysanthemum. Mem. Coll. Agr., Kyoto Imp. Univ., Japan, 3: 1-24.
——— and T. Nojima. 1928. (1405)
Studies on Polyporus orientalis parasitic on the roots of Pine trees. Ann. Phytopath. Soc. Japan 2: 70-88.
——— and K. Yakogi. 1927. (1406)
Studies on Sclerotium diseases of the rice plant. Agr. and Hort. 2: 955-1094.
Henderson, L. F. 1904. (1407)
Tomato blight. Idaho Agr. Exp. Sta. Ann. Rept., 1903-1904, 28-32.
Hendrick, J. 1918. (1408)
The use of lime in controlling finger-and-toe in turnips. Trans. Highland and Agr. Soc. Scot., Ser. 30, 5: 137-145.
Hendrickson, A. H. 1924. (1409)
A chlorotic condition of pear trees. Proc. Amer. Soc. Hort. Sci. 21: 87-98.
Hendry, G. W. 1918. (1410)
Relative effect of sodium chloride on the development of certain legumes. Jour. Amer. Soc. Agron. 10: 246-249.
Hengl, F. and P. Reckendorfer. 1928. (1411)
Der Schwefelgehalt des Bodens und seine Beziehung zur Pflanze. Fortschr. Landw. 3: 598-600.
Henning, E. 1894. (1412)
Några ord om olika predisposition för rost å säd. K. Landtbr. Akad. Handl. Tidskr. 33: 205-217.
———. 1909. (1413)
Våra viktigare landtbruksväxters disposition för och immunitet gent emot parasitsvampar. K. Landtbr. Akad. Handl. Tidskr. 48: 172-211.
———. 1918. (1414)
Bidrag till kannedomen on den s. k. gulspetssjukan has sädesslagen. Med. Centralanst. Eöröksv. Jard. Sweden 179; Bot. Avdelningen 15: 1-30.
———. 1919. (1415)
Anteckningar om gulrosten (Puccinia glumarum). K. Landtbr. Akad. Handl. Tidskr. 58: 401-418.

———. 1922. (1416)
Avdelning för landtbruks botanik. K. Landtbr. Akad. Handl. Tidskr. 61: 26-32.
———. 1926. (1417)
Predisponerande betingelser för svartrosthärjningar. Landtmannen 9: (51-52) 4 pp.
Hennings, P. 1903. (1418)
Einige beobachtungen über das Gesunden pilzkranker Pflanzen bei veränderten Kulturverhältnissen. Zeitschr. Pflanzenkr. 13: 41-45.
Henrici, M. 1927. (1419)
Phosphormangel als Ursache von Störungen im Leben der Pflanze. Verhandl. Naturforsch. Ges., Basel, 38: 316-326.
Henry, A. W. 1923. (1420)
The pathogenicity of Fusarium moniliforme Sheldon on cereals. Phytopath. 13: 52. (Abst.).
———. 1924. (1421)
Root-rots of wheat. Minn. Agr. Exp. Sta. Tech. Bull. 22, 1-67.
——— and W. R. Foster. 1929. (1422)
Leptosphaeria foot-rot of wheat in Alberta. Phytopath. 19: 689-690.
Henslow, G. 1900. (1423)
Injuries to plants by London fogs and smoke. Garden 57: 353-354.
———. 1901. (1424)
Injuries to plants by London fog, and by engine smoke. Jour. Roy. Hort. Soc., London, 26: 310-313.
———. 1912. (1425)
On the effects of excessive drouth upon plants; or the origin of xerophytes. Jour. Roy. Hort. Soc. 37: 505-507.
Heppner, M. J. 1927. (1426)
Study of bartlett pear black-end undertaken in California. Science 65: 280-281.
Herbert, D. A. 1922. (1427)
Bitter pit in apples: The crushed cell theory. Phytopath. 12: 489-491.
Herbert, F. B. 1924. (1428)
Spray stimulation. Jour. Econ. Ent. 17: 567-572.
Herrick, R. S. 1910. (1429)
Thinning the Winesap. Winter and frost injury of fruit trees. Colo. Agr. Exp. Sta. Bull. 170, 1-19.
Herzberg, P. 1895. (1430)
Vergleichende Untersuchungen über Landwirthschaftlichwichtige Flugbrandarten. Beitr. Physiol. u. Morph. 5: 1-36.
Hesler, L. R. 1916. (1431)
Black rot, leaf spot, and canker of pomaceous fruits. N. Y. (Cornell) Agr. Exp. Sta. Bull. 379, 157-252.
———. 1926. (1432)
Peach disease conditions in Ohio. Ohio Agr. Exp. Sta. Bimo. Bull. 11 (3), 110-114.
——— and H. H. Whetzel. 1917. (1433)
A manual of fruit diseases. New York.
Hesselink, E. 1927. (1434)
Onder welke omstandigheden doet Lophodermium pinastri Chev. te Appelscha, Exloo en Odeern schade in dennenbeplantigen? Tijdschr. Plantenziekt. 33: 105-124.
Hesselman, H. 1910. (1435)
Über den Sauerstoffgehalt des Bodenwassers und dessen Einwirkung auf die Versumpfung des Bodens und das Wachstum des Waldes. Meddel. Statens Skogsförsöksanst. Sweden 7: 91-125.
Heuser, W. 1922. (1436)
Versuche über den Einfluss äusserer Bedingungen auf die Stärke des Steinbrandbefalls des Weizens. Fuhling's Landw. Zeit. 71: 81-99.
Hewlett, C. H. 1928. (1437)
Hot-water treatment of seed barley. Jour. Agr. New Zealand 37: 185-186.
Hieke, F. 1928. (1438)
Einfluss der Düngung auf die Fusskrankheiten des Getreides. Ernähr. Pflanze 24: 411-412.
Higgins, B. B. 1919. (1439)
Gum formation with special reference to cankers and decays of woody plants. Ga. Agr. Exp. Sta. Bull. 127, 23-49.
———. 1923. (1440)
The diseases of pepper. Ga. Agr. Exp. Sta. Bull. 141, 48-75.

———. 1924. (1441)
Winter injury to pecans. Amer. Fruit Growers' Mag. 44 (1): 13.
———. 1927. (1442)
Physiology and parasitism of Sclerotium rolfsii. Phytopath. 17: 53. (Abst.).
Hilbig, R. 1926. (1443)
Der Einfluss der Bodenreaktion auf das Wachstum der Pflanzen. Bot. Arch. 15: 385-423.
Hiley, W. W. 1919. (1444)
The fungal diseases of the common larch. Oxford.
Hilgard, E. W. 1900. (1445)
Nature, value, and utilization of alkali lands. Calif. Agr. Exp. Sta. Bull. 128, 1-46.
———. 1906. (1446)
Marly subsoils and the chlorosis or yellowing of citrus trees. Calif. Agr. Exp. Sta. Circ. 27, 1-4.
Hill, L. 1921. (1447)
The growth of seedlings in wind. Proc. Roy. Soc., London, 92B: 28-31.
Hiltner, E. 1924 (1448)
Die Dörrfleckenkrankheit des Hafers und ihre Heilung durch Mangan. Landw. Jahrb. 60: 689-769.
———. 1926. (1449)
Störungen gesunden Pflanzenwachstums durch unausgeglichene Ernährung, unter besonderer Berücksichtigung der Dörrfleckenkrankheit des Hafers. Fortschr. Landwirtschaft 1 (11): 329-334.
———. 1928. (1450)
Beobachtungen über die Herz- und Trochenfäule der Rüben—eine Umfrage. Prakt. Blätter f. Pflanzenbau u. Pflanzenschutz 6: 214-218.
Hiltner, L. 1912. (1451)
Über den Einfluss der Ernährung und der Witterung auf das Auftreten pilzlicher und tierischer Pflanzenschädlinge. Jahrb. Deut. Landw. Ges. 27: 156-169.
———. 1913. (1452)
Über die diesjährigen Answinterungsschäden bei Klee und Roggen. Prakt. Blätter Pflanzenbau u. Schutz 16: 54-56.
———. 1914. (1453)
Beobachtungen und Untersuchungen über die sog. Dörrfleckenkrankheit des Hafers (Hafersucht). Prakt. Blätter Pflanzenbau u. Schutz 17: 28-41.
———. 1914. (1454)
Neuere Beobachtungen über den Rostbefall des Wintergetreides. Prakt. Blätter Pflanzenbau u. Schutz 17: 81-84.
——— and F. Lang. 1922. (1455)
Ueber den Einfluss der Düngung, insbesondere mit Kalkstickstoff, auf die Stärke des Brandbefalls des Getreides. Mitt. Deut. Landw. Ges. 37: 253-257.
Hintikka, T. J. 1929. (1456)
Distribution of potato wart and certain climatic factors of the infested regions. (Trans. title). Valtion Maatalovskoet. Julk., Helsinki, 23: 1-103.
Hirayama, S. 1930. (1457)
Studies on Polystictus sanguineus. Jap. Jour. Bot. 5: 32. (Abst.).
Hitchcock, A. S. and M. A. Carleton. 1893. (1458)
Preliminary report on rusts of grain. Kan. Agr. Exp. Sta. Bull. 38, 1-12.
——— and J. B. S. Norton. 1896. (1459)
Corn smut. Kan. Agr. Exp. Sta. Bull. 62, 169-212.
Hiura, M. 1929. (1460)
Studies on some downy mildews of agricultural plants. II. Relation of meteorological conditions to the downy mildew of cucumber. (Japanese). Gifu Imp. Col. Agr. Res. Bull. 6, 1-58.
———. 1929. (1461)
Studies on some downy mildews of agricultural plants. I. On Sclerospora graminicola (Sacc.), the causal fungus of the downy mildew of Italian Millet (the fourth note). Byochu- Gai Zasshi 16 (9): 5 pp.
———. 1929. (1462)
Studies on some downy mildews of agricultural plants. III. On the downy mildew of spinach. Agr. and Hort. 4: 10-22.
———. 1929. (1463)
Studies on some downy mildews of agricultural plants. I. On Sclerospora graminicola (Sacc.) Schroet., the causal fungus of the downy mildew of Italian millet (the second preliminary note). Jour. Soc. Agr. Sci. Japan, 1929, 245-253.

———. 1930. (1464)
A simple method for the germination of oospores of Sclerospora graminicola. Science 72: 95.
———. 1930. (1465)
Further note on the downy mildew of Setaria italica. (Japanese). Byochu-Gai Zasshi 17: 8 pp.
———. 1930. (1466)
Studies on some downy mildews of agricultural plants. IV. On the downy mildew of Welsh onion. (Report II). Agr. and Hort. 5: 1008-1014.
Hoagland, D. R. 1917. (1467)
The effect of hydrogen and hydroxyl ion concentration on the growth of barley seedlings. Soil Sci. 3: 547-560.
———. 1928. (1468)
Recent soil investigations in California. Amer. Fertilizer 68 (2): 34, 54, 57, 58, 60, 62.
Hockey, J. F. 1928. (1469)
Report of the Dominion Laboratory of Plant Pathology, Kentville, N. S. Canada Dept. Agr., Div. Bot. Rept., 1927, 139-156.
Hodgson, R. W. 1917. (1470)
The pomegranate. Calif. Agr. Exp. Sta. Bull. 276, 163-192.
———. 1917. (1471)
Some abnormal water relations in citrus trees of the arid Southwest and their possible significance. Univ. Calif. Publ. Agr. Sci. 3: 37-54.
———. 1917. (1472)
Citrus blast, a new bacterial disease. Calif. State Comm. Hort. Mo. Bull. 6, 229-233.
Hoerner, G. R. 1921. (1473)
Germination of aeciospores, urediniospores, and teliospores of Puccinia coronata. Bot. Gaz. 72: 173-177.
Hoffer, G. N. and R. H. Carr. 1923. (1474)
Accumulation of aluminum and iron compounds in corn plants and its probable relation to root rots. Jour. Agr. Res. 23: 801-823.
——— and J. F. Trost. 1923. (1475)
The accumulation of iron and aluminum compounds in corn plants and its probable relation to root rots. II. Jour. Amer. Soc. Agron. 15: 323-331.
Hoffman, H. 1860. (1476)
Untersuchungen über die Keimung der Pilzsporen. Jahrb. Wiss. Bot. 2: 267-337.
Holbert, J. R. and G. N. Hoffer. 1920. (1477)
Control of the root, stalk, and ear rot diseases of corn. U. S. Dept. Agr., Farmers' Bull. 1176, 1-24.
——— et al. 1924. (1478)
Corn root, stalk, and ear rot diseases, and their control thru seed selection and breeding. Ill. Agr. Exp. Sta. Bull. 255, 235-478.
Holder-Egger. 1927. (1479)
Wasser- und Kälteschäden im Gartenbau. Kleintierz. u. Gartenb. 52: 474.
Hole, R. S. 1916. (1480)
Importance of soil aeration in forestry. Agr. Jour. India (Spec. Sci. Cong. No.), 27-32.
———. 1918. (1481)
Recent investigations on soil-aeration II. With special reference to forestry. Agr. Jour. India 13: 430-440.
———. 1927. (1482)
Mortality of spruce in the Jaunsar Forests, United Provinces. Indian Forester 53: 434-443, 483-493.
——— and P. Singh. 1914. (1483)
Soil composition, soil-moisture, soil-aeration. Indian Forest Rec. 5 (4): 1-40.
——— and ———. 1916. (1484)
Ecology of Sal (Shorea robusta). III. Soil-aeration and water-cultures. Indian Forest Rec. 5: 87-102.
Holmes, F. O. 1928. (1485)
Accuracy in quantitative work with tobacco mosaic virus. Bot. Gaz. 86: 66-81.
Holmes, J. A. et al. 1915. (1486)
Bibliography on the effect of sulfur dioxide on vegetation and animal life. U. S. Dept. Int., Bur. Mines Bull. 98, 1-528.
Holmes, J. S. 1921. (1487)
Damage to forests by hail in North Carolina. U. S. Dept. Agr., Mo. Weather Rev. 49: 333.

Hooper, C. H. 1925. (1488)
Apple-leaf scorch. Gardeners' Chron. 77: 419.
Hopkins, E. F. 1921. (1489)
Growth and germination of Gibberella saubinetii at varying hydrogen-ion concentrations. Phytopath. 11: 36. (Abst.).
————. 1921. (1490)
Hydrogen-ion concentration of the soil and seedling infection by Gibberella saubinetii. Phytopath. 11: 36-37. (Abst.).
————. 1922. (1491)
Wheat scab. Mo. Agr. Exp. Sta. Bull. 197, 48.
————. 1922. (1492)
Hydrogen-ion concentration in its relation to wheat scab. Amer. Jour. Bot. 9: 159-179.
———— and F. B. Wann. 1926. (1493)
Relation of H-ion concentration to growth of Chlorella and to the availability of iron. Bot. Gaz. 81: 353-376.
———— and ————. 1927. (1494)
Iron requirement of Chlorella. Bot. Gaz. 84: 407-427.
Hopkins, J. C. F. 1928. (1495)
Frenching of tobacco. Rhodesia Agr. Jour. 25: 588-590.
————. 1928. (1496)
Preliminary experiments on the control of white mould of tobacco. Rhodesia Agr. Jour. 25: 1342-1348.
————. 1929. (1497)
Blackfire of tobacco. Rhodesia Agr. Jour. 26: 371-373.
————. 1930. (1498)
Field control of frenching in tobacco. Rhodesia Agr. Jour. 27: 581-586.
Hori, S. 1901. (1499)
Foot rot (take-all) disease of barley, wheat, and rye. (Japanese). Imp. Cent. Agr. Exp. Sta. Japan, Tech. Rept. 18: 35-65.
Horne, A. S. 1912-13. (1500)
Bruise in potato. Jour. Roy. Hort. Soc., London, 38: 40-50.
————. 1927. (1501)
Factors affecting the internal resistance of apple tissues to fungal attack. Dept. Sci. and Ind. Res., Food Invest. Bd. Rept. Great Britain, 1925-26, 52-53.
————. 1930. (1502)
Biological work. Dept. Sci. and Indus. Res., Food Invest. Board Rept. Great Britain, 1929, 125-140.
Horton, H. E. 1906. (1503)
A contribution to the bibliography of the use of sulfate of iron in agriculture. Chicago.
Hosseus, C. C. 1911. (1504)
Edaphische Wirkungen des Kalkes auf die Vegetation tropischer Karren und Karrenfelder. Bot. Jahrb. 45: 661-669.
Hotson, J. W. 1916. (1505)
Observations on fire blight in the Yakima Valley, Washington. Phytopath. 6: 288-292.
————. 1920. (1506)
Collar-rot of apple trees in the Yakima Valley. Phytopath. 10: 465-486.
Hotter, E. 1890. (1507)
Ueber das Vorkommen des Bors im Pflanzenreich und dessen physiologische Bedeutung. Landw. Vers. Sta. 37: 437-458.
Houdaille, F. and Mazade. 1894. (1508)
Influence de la distribution de l'humiditè dans le sol sur le développement de la chlorose de la vigne en sol calcaire. Compt. Rend. Acad. Sci. (Paris) 119: 304-307.
Houser, T. 1920. (1509)
Root rot of tobacco. Ohio Agr. Exp. Sta. Bimo. Bull. 5 (8): 232-234.
Houtman, P. W. 1916. (1510)
Lodging in sugar cane, and its prevention. Arch. Suikerindus. Nederland., Indië, 24: 637-665.
Howard, A. 1914. (1511)
The development of the fruit industry of Baluchistan. Pusa Agr. Res. Inst. India Rept., 1913-14, 43-46.
————. 1916. (1512)
Soil aeration in agriculture. Pusa Agr. Res. Inst. India Bull. 61, 1-22.

———————. 1916. (1513)
The importance of soil ventilation on the alluvium. Agr. Jour. India (Spec. Sci. Cong. No.), 46-52.
———————. 1918. (1514)
Recent investigations in soil-aeration. Indian Forester 44: 187-212.
———————. 1921. (1515)
The influence of soil factors on disease resistance. Ann. Appl. Biol. 7: 373-389.
———————. 1921. (1516)
Disease in plants. Agr. Jour. India 16: 626-637.
———————. 1924. (1517)
The effect of grass on trees. Proc. Roy. Soc., London, 97B: 284-321.
——————— and R. S. Hole. 1918. (1518)
Recent investigations in soil aeration. Agr. Jour. India 8: 416-440.
——————— and G. L. C. Howard. 1915. (1519)
Soil ventilation. Pusa Agr. Res. Inst. India Bull. 52, 1-35.
——————— and ———————. 1920. (1520)
Some aspects of the indigo industry in Bihar. Mem. Dept. Agr. India, Bot. Ser. 11 (1): 1-35.
Howard, R. F. 1924. (1521)
The relation of low temperatures to root injury of the apple. Nebr. Agr. Exp. Sta. Bull. 199, 1-32.
Howard, W. L. 1920. (1522)
An old disease in a new place. Proc. Amer. Soc. Hort. Sci. 17: 102-104.
Howell, J. K. 1890. (1523)
The clover rust (Uromyces trifolii) (Alb. and Schw.) (Wint.). N. Y. (Cornell) Agr. Exp. Sta. Bull. 24, 129-139.
Howitt, J. E. 1925. (1524)
A review of our knowledge concerning immunity and resistance in plants. Quebec Soc. Prot. Plants Ann. Rept. 16, 9-24.
———————. 1927. (1525)
The underlying causes of plant diseases. Ont. Agr. Col. Rev. 39: 265-268.
——————— and W. G. Evans. 1926. (1526)
Preliminary report of some observations on ascospore discharge and dispersal of conidia of Venturia inequalis (Cooke) Winter. Phytopath. 16: 559-563.
——————— and ———————. 1926. (1527)
Some observations on ascospore discharge and the dispersal of conidia of Venturia inequalis (Cooke) Winter. Phytopath. 16: 756. (Abst.).
Howlett, F. S. 1926. (1528)
Frost injury to the apple. Ohio Agr. Exp. Sta. Bimo. Bull. 11 (3): 104-109.
——————— and C. May. 1929. (1529)
The relation of lime-sulfur sprays to the abscission of young apples. Phytopath. 19: 1001-1007.
Huber, B. 1926. (1530)
Weitere Beobachtungen über verschiedene Dürreresistenz bei Licht- und Schattenpflanzen. Ber. Deutsch. Bot. Ges. 43: 551-559.
Huber, G. A. 1930. (1531)
The Aspergilli and their relation to decay in apples. Jour. Agr. Res. 41: 801-817.
Hubert, E. E. 1918. (1532)
A report on the red belt injury of forest trees. Mont. State Forester, Bien. Rept. 5, 33-38.
Hudig, J. 1923. (1533)
Diseases of crops in alkaline and sour soils. Rept. Intern. Conf. Phytopath. and Econ. Ent., Wageningen, 136-141.
———————. 1924. (1534)
Über die Kalkbedurfigkeit unserer Sandböden. Deutsche Landw. Presse 51: 218-219.
Hülsemann. 1926. (1535)
Der Einfluss des Kalis auf Krankheiterscheinungen der Kulturpflanzen. Ernähr. Pflanze 22: 217-219.
Humbert, J. G. 1918. (1536)
Tomato diseases in Ohio. Ohio Agr. Exp. Sta. Bull. 321, 157-196.
Hume, H. H. 1900. (1537)
Some citrus troubles. Fla. Agr. Exp. Sta. Bull. 53, 145-178.

Humphrey, C. J. 1923. (1538)
Decay of lumber and building timber due to Poria incrassata (B. & C.) Burt. Mycologia 15: 258-275.
———, ——— and R. M. Fleming. 1915. (1539)
The toxicity to fungi of various oils and salts, particularly those used in food preservation. U. S. Dept. Agr., Dept. Bull. 227, 1-38.
Humphrey, H. B. 1914. (1540)
Studies on the relation of certain species of Fusarium to tomato blight of the Pacific Northwest. Wash. Agr. Exp. Sta. Bull. 115, 1-22.
———, C. W. Hungerford, and A. G. Johnson. 1924. (1541)
Stripe rust (Puccinia glumarum) of cereals and grasses in the United States. Jour. Agr. Res. 29: 209-227.
Hunger, F. W. T. 1905. (1542)
Untersuchungen und Betrachtungen über die Mosaikkrankheit der Tobakspflanze. Zeitschr. Pflanzenkr. 15: 257-311.
Hungerford, C. W. 1922. (1543)
The relation of soil moisture and soil temperature to bunt infection in wheat. Phytopath. 12: 337-352.
——— and A. E. Wade. 1920. (1544)
Relation between soil moisture and bunt infection in wheat. Phytopath. 10: 53. (Abst.).
Hunter, C. and E. M. Rich. 1925. (1545)
The effect of artificial aeration of the soil on Impatiens balsamina L. New Phytol. 24: 257-271.
Hurd, A. M. 1920. (1546)
Injury to seed wheat resulting from drying after disinfection with formaldehyde. Jour. Agr. Res. 20: 209-244.
———. 1921. (1547)
Seed-coat injury and viability of seeds of wheat and barley as factors in susceptibility to molds and fungicides. Jour. Agr. Res. 21: 99-122.
———. 1923. (1548)
Hydrogen-ion concentration and varietal resistance of wheat to stem rust and other diseases. Jour. Agr. Res. 23: 373-386.
———. 1924. (1549)
The course of acidity changes during the growth period of wheat with special reference to stem-rust resistance. Jour. Agr. Res. 27: 725-735.
Hursh, C. R. 1922. (1550)
The relation of temperature and hydrogen-ion concentration to urediniospore germination of biologic forms of stem rust of wheat. Phytopath. 12: 353-361.
———. 1924. (1551)
Morphological and physiological studies on the resistance of wheat to Puccinia graminis tritici Erikss. and Henn. Jour. Agr. Res. 27: 381-411.
Hurst, R. R. 1928. (1552)
Control of wheat smut [Ustilago tritici (Pers.) Jens.] in the Huron variety, at Charlottetown, P. E. I. Canada Dept. Agr., Div. Bot. Rept., 1927, 116-117.
Husson, C. 1876. (1553)
Action de la fumée des fours à chaux sur les vignes. Compt. Rend. Acad. Sci. (Paris) 82: 1218-1221.
Hutchins, L. M. 1926. (1554)
Studies on the oxygen-supplying power of the soil together with quantitative observations on the oxygen-supplying power requisite for seed germination. Plant Physiol. 1: 95-150.
——— and B. E. Livingston. 1923. (1555)
Oxygen-supplying power of the soil as indicated by color changes in alkaline pyrogallol solution. Jour. Agr. Res. 25: 133-140.
Hutchinson, C. M. and N. V. Joshi. 1915. (1556)
Bacterial rot of stored potato tubers. Mem. Dept. Agr. India, Bact. Ser. 1 (5): 113-135.
Hutchinson, W. G. 1929. (1557)
An undescribed species of Macrophoma and of Volutella occurring on Pachysandra terminalis. Mycologia 21: 131-142.
Ikata, S. 1930. (1558)
Studien über die Rostkrankheit japanischer Minze. Jap. Jour. Bot. 5: 5-6. (Abst.).

Immer, F. R. and J. J. Christensen. 1928. (1559)
Influence of environmental factors on the seasonal prevalence of corn smut. Phytopath. 18: 589-598.
Ireland, J. C. 1927. (1560)
Controlling influences in corn rot problems. Bot. Gaz. 86: 249-269.
Ishiyama, S. 1928. (1561)
Bacterial leaf blight of the rice plant. Proc. Third Pan-Pacific Sci. Cong. (Tokyo), 1926, 2112.
Istvánffi, G. 1904. (1563)
Ueber die Lebensfähigkeit der Botrytis, Monilia und Coniothyrium Sporen. Centbl. Bakt. 11: 584-586. (Abst.).
————. 1914. (1564)
The conditions determining the outbreak of vine mildew in Hungary. Intern. Rev. Sci. and Pract. Agr., Rome, 5: 1242-1245.
———— and G. Pálinkás. 1912. (1565)
Infectionversuche mit Peronospora. Centbl. Bakt. 32: 551-564.
———— and ————. 1913. (1566)
Etudes sur le mildiou de la vigne. Ann. Inst. Cent. Ampeolo Roy. Hongrois 4: 1-125.
———— and ————. 1913. (1567)
Etudes sur le mildiou de la vigne. Rev. Vitic. 40: 481-484, 509-513, 540-543.
———— and F. Savoly. 1911. (1568)
Entre le temps et le mildiou en Hongrie. Rev. Vitic. 35: 613-621.
Ivanoff, B. 1907. (1569)
Untersuchungen über den Einfluss des Standortes auf den Entwicklungsgang und den Peridienbau der Uredineen. Centbl. Bakt. 18: 265-288, 470-480, 655-672.
Jackson, A. B. 1927. (1570)
The Fusarium wilt of China asters. Sci. Agr. 7: 233-247.
Jacob, H. E. 1929. (1571)
Powdery mildew of the grape and its control in California. Calif. Agr. Exten. Serv. Circ. 31, 1-18.
Jacobson, H. G. M. and T. R. Swanback. 1929. (1572)
Manganese toxicity in tobacco. Science 70: 283-284.
Jaczewski, A. v. 1910. (1573)
Studien uber das Verhalten des Schwarzrostes des Getreides in Russland. Zeitschr. Pflanzenkr. 20: 321-359.
Jäger, G. 1864. (1574)
Ueber die Wirkung der Arseniks auf Pflanzen. Stuttgart.
Jamieson, C. O. 1915. (1575)
Phoma destructiva, the cause of a fruit rot of the tomato. Jour. Agr. Res. 4: 1-20.
Jankowska, K. 1930. (1576)
Observations on the greenhouse fungus (Moniliopsis aderholdi Ruhl.). (Trans. title). Mém. Inst. Nat. Polonais d'Écon. Rur. à Putawy 11: 61-69.
Janson, A. 1905. (1577)
Kalidungung gegen die Spitzendürre. Prakt. R. Obst- u. Gartenbau 20 (38): 342.
————. 1927. (1578)
Gehölz-Schädigungen durch Rauch und Russ. Prakt. R. Obst- u. Gartenbau 42: 339-340.
Janssen, G. and R. P. Bartholomew. 1929. (1579)
The translocation of potassium in tomato plants and its relation to their carbohydrate and nitrogen distribution. Jour. Agr. Res. 38: 447-465.
Janssen, J. J. 1929. (1580)
Invloed der bemesting op de gezondheid van de Aardappel. Tijdschr. o. Plantenziekten 35: 119-151.
Jarrett, P. H. 1930. (1581)
Streak—a virus disease of tomatoes. Ann. Appl. Biol. 17: 248-259.
Jehle, R. A. 1914. (1582)
Peach cankers and their treatment. N. Y. (Cornell) Agr. Exp. Sta. Circ. 26, 1129-1140.
————. 1929. (1583)
Problems in the control of apple scab. Trans. Penin. Hort. Soc. 19: 27-30.
Jenkin, T. J. and K. Sampson. 1921. (1584)
Rust resistance trials with wheat. Welsh Plant Breeding Sta., Ser. C, Bull. 1, 41-49.
Jennings, O. E. 1923. (1585)
The relation of smoke, fumes, and dust to the vegetation of the industrial district of Pittsburgh. Trillia 7: 27-38.

Jensen, C. A. 1918. (1586)
June drop and its relation to the weather. Calif. Citrogr. 3: 255, 277.
Jensen, G. H. 1907. (1587)
Toxic limits and stimulation effects of some salts and poisons on wheat. Bot. Gaz. 43: 11-44.
Jensen, H. J. 1928. (1588)
Potato necrosis. Wash. Agr. Exp. Sta. Bull. 229, 57.
Jensen, H. L. 1930. (1589)
Notes on a cellulose-decomposing soil fungus of an unusual character. Proc. Linn. Soc. N. S. Wales 15: 699-707.
Jensen, I. J. 1925. (1590)
Winter wheat studies in Montana with special reference to winter killing. Jour. Amer. Soc. Agron. 17: 630.
Jensen, J. L. 1887. (1591)
Moyens de combattre et de détruire le Peronospora de la pomme de terre. Mem. Soc. Nat. Agr. France 131: 31-156.
————. 1888. (1592)
Om Kornsorternes Brand. (Anden Meddelelse). Kjobenhavn.
Johann, H. 1928. (1593)
Penicillium injury to corn seedlings. Phytopath. 18: 239-242.
————, J. G. Dickson, and G. Wineland. 1923. (1594)
Relation of environment to infection of corn seedlings by Diplodia zeae (Schw.) Lev. Phytopath. 13: 52-53. (Abst.).
————, J. R. Holbert, and J. G. Dickson. 1926. (1595)
A Pythium seedling blight and root rot of dent corn. Phytopath. 16: 85. (Abst.).
————, ————, and ————. 1928. (1596)
A Pythium seedling blight and root rot of dent corn. Jour. Agr. Res. 37: 443-464.
Johnson, A. G. 1911. (1597)
Further notes on timothy rust. Proc. Ind. Acad. Sci., 1910, 203-204.
————. 1914. (1598)
Experiments on the control of certain barley diseases. Phytopath. 4: 46. (Abst.).
———— and J. G. Dickson. 1921. (1599)
Wheat scab and its control. U. S. Dept. Agr., Farmers' Bull. 1224, 1-16.
Johnson, E. C. 1910. (1600)
Facts contributing to the explanation of grain rust epidemics. Science 32: 256. (Abst.).
————. 1912. (1601)
Cardinal temperatures for the germination of uredospores of cereal rusts. Phytopath. 2: 47-48. (Abst.).
Johnson, H. W. 1923. (1602)
Relationships between hydrogen ion, hydroxyl ion and salt concentrations and the growth of seven soil molds. Iowa Agr. Exp. Sta. Res. Bull. 76, 305-344.
Johnson, J. 1914. (1603)
The control of damping-off in plant beds. Wis. Agr. Exp. Sta. Res. Bull. 31, 29-61.
————. 1914. (1604)
Black rot, shed burn, and stem rot of tobacco. Wis. Agr. Exp. Sta. Res. Bull. 32, 63-86.
————. 1921. (1605)
The relation of air temperature to certain plant diseases. Phytopath. 11: 446-458.
————. 1921. (1606)
Fusarium-wilt of tobacco. Jour. Agr. Res. 20: 515-535.
————. 1922. (1607)
Tobacco diseases. Wis. Agr. Exp. Sta. Bull. 339, 45-48.
————. 1922. (1608)
Late potato blight kills in warm weather. Wis. Agr. Exp. Sta. Bull. 339, 48.
————. 1922. (1609)
Non-parasitic leaf spots of tobacco. Phytopath. 12: 52. (Abst.).
————. 1922. (1610)
The relation of air temperature to the mosaic disease of potatoes and other plants. Phytopath. 12: 438-440.
————. 1923. (1611)
Potato mosaic influenced by temperature. Wis. Agr. Exp. Sta. Bull. 352, 58-59.
————. 1923. (1612)
A bacterial leafspot of tobacco. Jour. Agr. Res. 23: 481-493.

———. 1924. (1613)
Tobacco diseases and their control. U. S. Dept. Agr., Dept. Bull. 1256, 1-56.
———. 1926. (1614)
The attenuation of plant viruses and the inactivating influence of oxygen. Science 64: 210.
———. 1927. (1615)
The classification of plant viruses. Wis. Agr. Exp. Sta. Res. Bull. 76, 1-16.
———. 1928. (1616)
Further studies on the attenuation of plant viruses. Phytopath. 18: 156. (Abst.).
———. 1929. (1617)
The classification of certain virus diseases of the potato. Wis. Agr. Exp. Sta. Res. Bull. 87, 1-24.
———. 1929. (1618)
"Road-oil" injury to tobacco and other crops. Wis. Agr. Exp. Sta. Bull. 405, 113-114.
———. 1930. (1619)
Breeding tobacco for resistance to Thielavia root rot. U. S. Dept. Agr., Tech. Bull. 175, 1-20.
——— and R. E. Hartman. 1918. (1620)
Influence of soil temperature on Thielavia root-rot. Phytopath. 8: 77. (Abst.).
——— and ———. 1919. (1621)
Influence of soil environment on the root-rot of tobacco. Jour. Agr. Res. 17: 41-86.
——— and H. F. Murwin. 1925. (1622)
Experiments on the control of wildfire of tobacco. Wis. Agr. Exp. Sta. Res. Bull. 62, 1-35.
———, C. M. Slagg, and H. F. Murwin. 1926. (1623)
The brown root rot of tobacco and other plants. U. S. Dept. Agr., Dept. Bull. 1410, 1-29.
Johnson, M. O. 1916. (1624)
The spraying of yellow pineapple plants on manganese soils with sulfate solutions. Hawaii Agr. Exp. Sta. Press Bull. 51, 1-11.
———. 1924. (1625)
Manganese chlorosis of pineapples: Its cause and control. Hawaii Agr. Exp. Sta. Bull. 52, 1-38.
———. 1928. (1626)
Control of chlorosis of the pineapple and other plants. Jour. Indus. and Engin. Chem. 20: 724-725.
Johnson, T. 1925. (1627)
Studies on pathogenicity and physiology of Helminthosporium gramineum Rab. Phytopath. 15: 797-804.
——— and M. Newton. 1928. (1628)
The occurrence of yellow stripe rust in western Canada. Phytopath. 18: 481. (Abst.).
Johnston, C. O. 1924. (1629)
Wheat bunt investigations in Kansas. Phytopath. 14: 37. (Abst.).
———. 1927. (1630)
Effects of soil moisture and temperature and of dehulling on the infection of oats by loose and covered smuts. Phytopath. 17: 31-36.
——— and L. E. Melchers. 1929. (1631)
Greenhouse studies on the relation of age of wheat plants to infection by Puccinia triticina. Jour. Agr. Res. 38: 147-157.
Johnston, E. S. 1921. (1632)
The freezing of peach buds. U. S. Dept. Agr., Mo. Weather Rev. 49: 231.
——— and W. H. Dore. 1929. (1633)
The influence of boron on the chemical composition and growth of the tomato plant. Plant Physiol. 4: 31-62.
——— and P. L. Fisher. 1930. (1634)
The essential nature of boron to the growth and fruiting of the tomato. Plant Physiol. 5: 387-392.
Johnston, J. R. 1912. (1635)
The history and cause of the coconut bud-rot. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 228, 1-175.
Jones, D. H. 1909. (1636)
Bacterial blight of apple, pear and quince trees. Ont. Dept. Agr. Bull. 176, 1-63.

Jones, E. S. 1922. (1637)
Relation of temperature, soil moisture, and oxygen to the germination of the spore of Ustilago avenae. Phytopath. 12: 45. (Abst.).
———. 1923. (1638)
Influence of temperature, moisture, and oxygen on spore germination of Ustilago avenae. Jour. Agr. Res. 24: 577-591.
———. 1923. (1639)
Influence of temperature on the spore germination of Ustilago zeae. Jour. Agr. Res. 24: 593-597.
Jones, F. R. 1918. (1640)
Yellow-leafblotch of alfalfa caused by the fungus Pyrenopeziza medicaginis. Jour. Agr. Res. 13: 307-329.
———. 1919. (1641)
The leaf-spot diseases of alfalfa and red clover caused by the fungi Pseudopeziza medicaginis and Pseudopeziza trifolii, respectively. U. S. Dept. Agr., Dept. Bull. 759, 1-38.
———. 1923. (1642)
Stem and rootrot of peas in the United States caused by species of Fusarium. Jour. Agr. Res. 26: 459-475.
——— and C. Drechsler. 1925. (1643)
Root rot of peas in the United States caused by Aphanomyces euteiches. (n. sp.). Jour. Agr. Res. 30: 293-325.
——— and M. B. Linford. 1925. (1644)
Pea disease survey in Wisconsin. Wis. Agr. Exp. Sta. Res. Bull. 64, 1-31.
——— and L. McCulloch. 1926. (1645)
A bacterial wilt and root rot of alfalfa caused by Aplanobacter insidiosum L. McC. Jour. Agr. Res. 33: 493-521.
——— and R. E. Vaughan. 1921. (1646)
Anthacnose of the garden pea. Phytopath. 11: 500-503.
——— and J. L. Weimer. 1928. (1647)
Bacterial wilt and winter injury to alfalfa. U. S. Dept. Agr. Circ. 39, 1-8.
Jones, G. H. and T. G. Mason. 1926. (1648)
On two obscure diseases of cotton. Ann. Bot. 40: 759-772.
Jones, H. L. 1927. (1649)
Manurial and stripe disease control experiment on tomatoes, Rhyl. Welsh Jour. Agr. 3: 296-297.
Jones, J. P. 1927. (1650)
Influence of cropping systems on root-rots of tobacco. Jour. Amer. Soc. Agron. 20: 679-685.
———. 1928. (1651)
The influence of cropping systems and fertilizers on black and brown root rot of tobacco. Phytopath. 18: 131. (Abst.).
———. 1929. (1652)
A cause of a chlorosis of corn. Mass. Agr. Exp. Sta. Bull. 247, 304.
———. 1929. (1653)
The effect of other crops on tobacco. Jour. Amer. Soc. Agron. 21: 118-129.
———. 1929. (1654)
Deficiency of magnesium the cause of a chlorosis in corn. Jour. Agr. Res. 39: 873-892.
Jones, J. S. and G. A. Mitchell. 1926. (1655)
The cause and control of yellow berry in turkey wheat grown under dry-farming conditions. Jour. Agr. Res. 33: 281-292.
Jones, L. H. 1930. (1666)
Department of Botany. Mass. Agr. Exp. Sta. Bull. 260, 340-344.
Jones, L. K. 1924. (1667)
Anthracnose of cane fruits and its control on black raspberries in Wisconsin. Wis. Agr Exp. Sta. Res. Bull. 59, 1-26.
Jones, L. R. 1895. (1668)
Relation of the late blight of potato to the weather. Vt. Agr. Exp. Sta. Ann. Rept. 9, 66-71.
———. 1895. (1669)
Potato blights and fungicides. Vt. Agr. Exp. Sta. Bull. 49, 79-100.
———. 1897. (1670)
Apple scald. Vt. Agr. Exp. Sta. Ann. Rept. 10, 55-59.

———. 1900. (1671)
Leaf scorching of trees by the wind. Vt. Agr. Exp. Sta. Ann. Rept. 13, 281-282.
———. 1901. (1672)
A soft rot of carrot and other vegetables. Vt. Agr. Exp. Sta. Ann. Rept. 13, 299-332.
———. 1901. (1673)
Bacillus carotovorus n. sp., die Ursache einer weichen Fäulnis der Möhre. Centbl. Bakt. 7: 12-21, 61-68.
———. 1902. (1674)
Studies upon plum blight. Centbl. Bakt. 9: 835-841.
———. 1903. (1675)
The disease of the potato in relation to its development. Trans. Mass. Hort. Soc., 144-156.
———. 1905. (1676)
Disease resistance of potatoes. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 87, 1-39.
———. 1917. (1677)
Lightning injury to kale. Phytopath. 7: 140-142.
———. 1917. (1678)
Soil temperatures as a factor in phytopathology. Plant World 20: 229-237.
———. 1921. (1679)
Experimental work on the relation of soil temperatures to disease in plants. Trans. Wis. Acad. Sci. 20: 433-459.
———. 1924. (1680)
The relation of environment to disease in plants. Amer. Jour. Bot. 11: 601-609.
———. 1929. (1681)
Essential factors in destructive plant disease development. Proc. Intern. Congress Plant Sci., Ithaca, 1926 (2), 1284-1298.
——— et al. 1912. (1682)
Investigations of the potato fungus Phytophthora infestans. Vt. Agr. Exp. Sta. Bull. 168, 1-93.
——— et al. 1916. (1683)
Plant pathology problems. Wis. Agr. Exp. Sta. Bull. 268, 18-25.
——— et al. 1920. (1684)
Plant pathology investigations. Wis. Agr. Exp. Sta. Bull. 319, 26-36.
——— et al. 1920. (1685)
Investigations in plant pathology. Wis. Agr. Exp. Sta. Bull. 323, 59-73.
——— et al. 1922. (1686)
Plant disease investigations. Wis. Agr. Exp. Sta. Bull. 339, 32-48.
——— et al. 1923. (1687)
Plant disease investigations. Wis. Agr. Exp. Sta. Bull. 352, 53-65.
——— et al. 1923. (1688)
Bacterial leaf spot of clovers. Jour. Agr. Res. 25: 471-490.
——— et al. 1924. (1689)
Relation of environment to health and disease in plants. Wis. Agr. Exp. Sta. Bull. 362, 47-49.
——— et al. 1926. (1690)
Plant disease investigations. Wis. Agr. Exp. Sta. Bull. 388, 75-85.
——— and A. W. Edson. 1901. (1691)
Potato scab and its prevention. Vt. Agr. Exp. Sta. Bull. 85, 109-120.
———, N. J. Giddings, and B. F. Lutman. 1912. (1692)
Investigations of the potato fungus Phytophthora infestans. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 245, 1-93.
——— and W. W. Gilbert. 1915. (1693)
Lightning injury to cotton and potato plants. U. S. Dept. Agr., Mo. Weather Rev. 43: 135.
———, ———, and M. W. Gardner. 1918. (1694)
Lightning injury to crops. Records of observations. Phytopath. 8: 80. (Abst.).
——— and ———. 1918. (1695)
Lightning injury to herbaceous plants. Phytopath. 8: 270-282.
——— and J. C. Gilman. 1915. (1696)
The control of cabbage yellows through disease resistance. Wis. Agr. Exp. Sta. Res. Bull. 38, 1-70.
———, A. G. Johnson, and C. S. Reddy. 1917. (1697)
Bacterial-blight of barley. Jour. Agr. Res. 11: 625-643.

———, J. Johnson, and J. G. Dickson. 1926. (1698)
Wisconsin studies upon the relation of soil temperature to plant disease. Wis. Agr. Exp. Sta. Res. Bull. 71, 1-144.
——— and H. H. McKinney. 1919. (1699)
The influence of soil temperature on potato scab. Phytopath. 9: 301-302.
——— and ———. 1920. (1700)
The influence of soil temperature on the development of potato scab. Phytopath. 10: 63. (Abst.).
———, ———, and H. Fellows. 1922. (1701)
The influence of soil temperature on potato scab. Wis. Agr. Exp. Sta. Res. Bull. 53, 1-35.
———, M. Miller, and E. Bailey. 1919. (1702)
Frost necrosis in potato tubers. Wis. Agr. Exp. Sta. Res. Bull. 46, 1-46.
——— and ———. 1919. (1703)
Frost necrosis of tulip leaves. Phytopath. 9: 475-476.
——— and W. J. Morse. 1902. (1704)
Report of the botanists. Vt. Agr. Exp. Sta. Ann. Rept. 15, 209-248.
——— and ———. 1903. (1705)
Occurrence of plant diseases in Vermont in 1903. Vt. Agr. Exp. Sta. Ann. Rept. 16, 153-168.
——— and C. S. Pomeroy. 1907. (1706)
The leaf blotch disease of the potato caused by Cercospora concors. Vt. Agr. Exp. Sta. Ann. Rept. 19, 236-257.
——— and R. S. Riker. 1927. (1707)
Aster wilt and yellows. Wis. Agr. Exp. Sta. Bull. 396, 117-119.
——— and ———. 1928. (1708)
Studies upon the Fusarium wilt of China aster. Phytopath. 18: 150. (Abst.).
——— and W. B. Tisdale. 1922. (1709)
The influence of soil temperature upon the development of flax wilt. Phytopath. 12: 409-413.
———, J. C. Walker, and W. B. Tisdale. 1921. (1710)
Fusarium resistant cabbage. Wis. Agr. Exp. Sta. Res. Bull. 48, 1-34.
Jonescu, D. 1894. (1711)
Weitere Untersuchungen über die Blitzschläge in Bäumen. Ber. Deutsch. Bot. Ges. 12: 129-136.
Jordan, W. H., F. C. Stewart, and H. J. Eustace. 1905. (1712)
Effect of certain arsenites on potato foliage. N. Y. (Geneva) Agr. Exp. Sta. Bull. 267, 263-284.
Jorgensen, C. A. 1928. (1712a)
Gulspidssygen dens udbredelse, aarsager og bekaempelse. Tidsskr. Planteavl 34: 76-116.
Jorgensen, I. and W. Stiles. 1917. (1713)
Atmospheric electricity as an environmental factor. Jour. Ecol. 5: 203-209.
Jungner, J. R. 1901. (1714)
Über die Frostbeschädigung des Getreides im vergangenen Winter und die begleitende Pilzbeschädigung desselben. Zeitschr. Pflanzenkr. 11: 343-344.
———. 1904. (1715)
Über den klimatisch—biologischen Zusammenhang einer Reihe Getreidekrankheiten während der letzten Jahre. Zeitschr. Pflanzenkr. 14: 321-347.
Juritz, C. F. 1912 and 1913. (1716)
Chlorosis in orchards near Bloemfontein. Agr. Jour. Union So. Africa 4: 854-865 and 5: 102-112.
Kahlenberg, L. and R. H. True. 1896. (1717)
On the toxic action of dissolved salts and their electrolytic dissociation. Bot. Gaz. 22: 81-124.
Kamenicky, K. 1930. (1718)
Der überflick der Forstschäden an Obstbäumen in der Tschechoslowakei. Gartenbau. 3: 273-276.
Kamerling, Z. 1903. (1719)
Verslag van het Wortelrot-Oenderzoek. Soerabaia.
Kappen, H. 1916. (1720)
Studien an saueren Mineralböden aus der Nähe von Jena. Landw. Vers. Sta. 88: 13-104.
Karsner, H. T. and O. Saphir. 1926. (1721)
Influence of high partial pressures of oxygen on the growth of certain molds. Jour. Infect. Diseases 39: 231-236.

Kaven, G. 1928. (1722)
Die Stippe der Äpfel. Die Kranke Pflanze 5: 187.
————. 1930. (1723)
Obstbäume und Windschäden. Die Kranke Pflanze 7: 86-88.
Kay, A. O. 1925. (1724)
Soil moisture studies in relation to diseased tree conditions in Brevard County (Florida). Citrus Ind. 6 (8): 5-9, 22-23.
Kean, A. L. 1889. (1725)
A lily disease in Bermuda. Ann. Bot. 4: 169-170.
Kearny, T. H. and L. L. Harter. 1907. (1726)
The comparative tolerance of various plants for the salts common in alkali soils. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 113, 1-20.
Keitt, G. W. 1917. (1727)
Peach scab and its control. U. S. Dept. Agr., Dept. Bull. 395, 1-66.
————. 1926. (1728)
Some relations of environment to the epidemiology and control of apple scab. Proc. Nat. Acad. Sci. 12: 68-74.
————. 1926. (1729)
Studies of apple scab infection under controlled conditions. Phytopath. 16: 77. (Abst.).
————. 1927. (1730)
Studies of apple scab and cherry leaf spot infection under controlled conditions. Phytopath. 17: 45. (Abst.).
————. 1930. (1731)
Fall applications of fungicides in relation to apple-scab control. Phytopath. 20: 122. (Abst.).
———— and L. K. Jones. 1924. (1732)
Seasonal development and control of apple scab and cherry leaf spot in relation to environment. Phytopath. 14: 36. (Abst.).
———— and ————. 1926. (1733)
Studies of the epidemiology and control of apple scab. Wis. Agr. Exp. Sta. Res. Bull. 73, 1-104.
———— and E. E. Wilson. 1926. (1734)
Control of apple scab and cherry leaf spot. Wis. Agr. Exp. Sta. Bull. 388, 79-80.
———— and ————. 1929. (1735)
Third progress report of studies of fall applications of fungicides in relation to apple scab control. Phytopath. 19: 87-88. (Abst.).
Kellerman, W. A. and W. T. Swingle. 1890. (1736)
Preliminary experiments with fungicides for stinking smut of wheat. Kan. Agr. Exp. Sta. Bull. 12, 27-50.
Kelley, W. P. 1909. (1737)
The influence of manganese on the growth of pineapples. Hawaii Agr. Exp. Sta. Press Bull. 23, 1-14.
————. 1909. (1738)
Manganese in some of its relations to the growth of pineapples. Jour. Indus. and Engin. Chem. 1: 533-538.
————. 1912. (1739)
The function and distribution of manganese in plants and soils. Hawaii Agr. Exp. Sta. Bull. 26, 7-41.
———— and S. M. Brown. 1928. (1740)
Boron in the soil and irrigation waters of Southern California and its relation to citrus and walnut culture. Hilgardia 3: 445-458.
———— and A. B. Cummins. 1920. (1741)
Composition of normal and mottled citrus leaves. Jour. Agr. Res. 20: 161-191.
———— and E. E. Thomas. 1920. (1742)
The effects of alkali on citrus trees. Calif. Agr. Exp. Sta. Bull. 318, 305-337.
Kelley, V. W. 1930. (1743)
Effect of certain hydrocarbon oils on respiration of foliage and dormant twigs of the apple. Ill. Agr. Exp. Sta. Bull. 348, 369-406.
Kelly, J. W. 1923. (1744)
Probable cause of the toxicity of the so-called poisonous greensand. Jour. Agr. Res. 23: 223-228.
Kemmann. 1929. (1745)
Die Auswirkung der Forstschäden in der Rheinprovinz. Landw. Zeitschr. Rheinprov. 30: 345-346.

Kendall, J. N. 1918. (1746)
Abscission of flowers and fruits in the Solanaceae, with special reference to Nicotiana. Univ. Calif. Publ. Bot. 5: 347-428.
Kendrick, J. B. 1923. (1747)
Phytophthora rot of tomato, eggplant, and pepper. Proc. Ind. Acad. Sci., 1922, 299-306.
————. 1926. (1748)
Holcus bacterial spot of Zea mays and Holcus species. Iowa Agr. Exp. Sta. Res. Bull. 100, 303-334.
————. 1927. (1749)
The black-root disease of radish. Ind. Agr. Exp. Sta. Bull. 311, 1-32.
Kerr, A. P. and C. E. Smith. 1925. (1750)
Toxicity of sodium silicofluoride and arsenical mixtures to plant foliage. U. S. Dept. Agr. Official Rec., 4 (48): 5.
Kessler, H. 1927. (1751)
Schädigungen der Vegetation durch Bergbau und Industrie. Landw. Zeitschr. Rheinprov. 28: 268-271.
————. 1928. (1752)
Kalidüngung und Nachtfrostgefahr. Ernähr. Pflanze 24: 385-386.
Kidd, F. 1919. (1753)
Laboratory experiments on the sprouting of potatoes in various gas mixtures. New Phytol. 18: 248-252.
Kidd, M. N. and A. Beaumont. 1924. (1754)
Apple rot fungi in storage. Trans. Brit. Mycol. Soc. 10: 98-118.
———— and R. G. Tomkins. 1928. (1755)
An analytical study of the mortality of orange fruits at various constant temperatures. Dept. Sci. and Indus. Res., Rept. Food Invest. Bd.; London, 1927, 35-36.
Kienholz, J. R. and F. D. Heald. 1930. (1756)
Cultures and strains of the stinking smut of wheat. Phytopath. 20: 495-512.
Kiessling, L. 1916. (1757)
Über die Streifenkrankheit der Gerste als Sorten und Linienkrankheiten und einiges über ihr Bekämpfung. Fuhling's Landw. Zeit. 65: 537-549.
Kilgore, B. W. 1891. (1758)
On the cause and prevention of the injury to foliage by arsenites together with a new and cheap arsenite, and experiments on combining arsenites with fungicides. N. C. Agr. Exp. Sta. Tech. Bull. 2, 1-11.
Kincer, J. B. 1925. (1759)
Climate and weather influence on the fruit industry in the United States. Amer. Met. Soc. Bull. 6 (1): 12-14.
King, C. J. 1923. (1760)
Habits of the cotton root rot fungus. Jour. Agr. Res. 26: 405-418.
———— and H. F. Loomis. 1926. (1761)
Experiments on the control of cotton root rot in Arizona. Jour. Agr. Res. 32: 297-310.
———— and ————. 1927. (1762)
Factors influencing the severity of the crazy-top disorder of cotton. U. S. Dept. Agr., Dept. Bull. 1484, 1-22.
Kinney, L. F. 1891. (1763)
Notes on potato scab. R. I. Agr. Exp. Sta. Bull. 14, 175-190.
————. 1897. (1764)
Celery culture in Rhode Island. R. I. Agr. Exp. Sta. Bull. 44, 17-63.
Kirby, R. S. 1925. (1765)
The take-all disease of cereals and grasses caused by Ophiobolus cariceti (Berkeley and Broome) Saccardo. N. Y. (Cornell) Agr. Exp. Sta. Mem. 88, 1-45.
Kirchhoff, H. 1929. (1766)
Beiträge zur Biologie und Physiologie des Mutterkornpilzes. Centbl. Bakt. 77: 310-369.
Kirchner, O. v. 1908. (1767)
Neue Beobachtungen über die Empfänglichkeit verschiedener Weizensorten für die Steinbrandkrankheit. Fuhling's Landw. Zeit. 57: 161-170.
————. 1916. (1768)
Untersuchungen über die Empfänglichkeit unserer Getreide für Brand- und Rostkrankheiten. Fuhling's Landw. Zeit. 65: 1-28, 42-72, 92-137.
————. 1916. (1769)
Über die verschiedene Empfänglichkeit der Weizensorten für die Steinbrandkrankheit. Zeitschr. Pflanzenkr. 26: 17-25.

———. 1922. (1770)
Die Grundlagen der Immunitätszüchtung. Jahrb. Deut. Landw. Ges. 36: 267-294.
Kirschner, R. 1929. (1771)
Die Blattrollkrankheit des Hopfens. Fortschr. Landw. 4: 699-700. (Abst.).
Kirste, H. 1925. (1772)
Ueber das Pflanzenwachstums auf sauren Böden. Zeitschr. Pflanzenernähr. u. Düng. (A) 5: 129-194.
Klebahn, H. 1895. (1773)
Kulturversuche mit heteröscischen Rostpilzen. Zeitschr. Pflanzenkr. 5: 13-18, 69-79, 149-156, 257-268, 327-333.
———. 1912. (1774)
Grundzüge der allgemeinen Phytopathologie. Berlin.
Klebs, G. 1896. (1775)
Die Bedingungen der Fortpflanzung bei einigen Algen und Pilzen. Jena.
———. 1898-1900. (1776)
Zur Physiologie der Fortpflanzung einiger Pilze. Jahrb. Wiss. Bot. 32: 1-70; 33: 513-593; 35: 80-203.
Kleinstück, M. 1928. (1777)
Das dendrologische Vorkammen des Mangans. Tharandter Forstl. Jahrb. 79: 415-419.
Klinck, L. S. 1910. (1778)
The susceptibility of certain cereals to smut. Quebec Soc. Prot. Plants Ann. Rept. 2, 14-15.
Klotz, L. J. 1923. (1779)
A study of the celery early blight fungus, Cercospora apii Fres. Mich. Agr. Exp. Sta. Tech. Bull. 63, 1-34.
Knight, H. 1928. (1780)
A micro-technique for observing oil penetration in citrus leaves after spraying. Science 68: 572.
———, J. C. Chamberlin, and C. D. Samuels. 1929. (1781)
On some limiting factors in the use of saturated petroleum oils as insecticides. Plant Physiol. 4: 299-321.
Knight, L. I. and W. Crocker. 1913. (1782)
Toxicity of smoke. Bot. Gaz. 55: 337-371.
Knight, R. C. 1924. (1783)
The response of plants in soil- and water-culture to aeration of the roots. Ann. Bot. 38: 305-325.
Knippel, K. 1928. (1784)
Beobachtungen über Frostbeschädigungen an Obstbäumen. Obst- u. Gemüsebau 74: 41-42.
Knop, W. 1884. (1785)
Ueber die Aufnahme verschiedener Substanzen durch die Pflanze, welche nicht zu den Nährstoffen gehören. Jahresb. Agr. Chem. 27: 138-140.
Knowlton, H. E. and M. J. Dorsey. 1927. (1786)
A study of the hardiness of the fruit buds of the peach. W. Va. Agr. Exp. Sta. Bull. 211, 1-28.
Knudson, L. 1925. (1787)
Hydrogen-ion concentration and plant growth. Jour. Amer. Soc. Agron. 17: 711-716.
Kny, H. 1871-1872. (1788)
Einfluss des Leuchtgases auf die Baumvegetation. Bot. Zeit. 29: 852-854, 867-874.
Kochman, J. 1929. (1789)
Studja biologiczne nad pasorzytem Wierzby Fusicladium saliciperdum (All. et Tub.) Lind. (English summary) Mém. Inst. Nat. Polonais d'Econ. Rur. à Putawy 10: 555-573.
Köck, G., P. Reckendorfer, and F. Beran. 1929. (1790)
Der Schwefeldioxygehalt der Luft und sein Einfluss auf die Pflanze. Fortschr. Landw. 4: 170-172.
König, J. 1879. (1791)
Untersuchungen über Beschädigungen von Boden und Pflanzen durch industrielle Abflusswasser und Gase. Beidermann's Centbl. f. Agr-chem. 8: 564-567.
———. 1883. (1792)
Nachtrag zu vorstehenden Versuchen über den schädlichen Einfluss von Kochsalz und zinksulfathaltigem Wasser auf Boden und Pflanzen. Landw. Jahrb. 12: 837-844.
———. 1884. (1793)
Einfluss von säurehaltigen Rauchgasen auf die Vegetation. Jahresb. Agr. Chem. 27: 234-238.

Koning, C. J. 1899. (1794)
Die Flecken—oder Mosaikkrankheit des holländischen Tabaks. Zeitschr. Pflanzenkr. 9: 65-80.
————. 1900. (1795)
Der Tabak. Studien über seine Kultur und Biologie. Amsterdam.
Korff, G. 1906. (1796)
Über Einwirkung von Öldämpfe auf die Pflanzen. Prakt. Bl. Pflanzenbau u. Schutz 4: 78-81.
———— and F. Ottensooser. 1926. (1797)
Ueber die Wirkung einiger Bodenhandlungsmittle auf das Pflanzenwachstum. Arb. Biol. Reichsanst Land- u. Forstw. 15: 47-74.
Korstian, C. F. 1921. (1798)
Effect of a late spring frost upon forest vegetation in the Wasatch mountains of Utah. Ecology 2: 47-52.
———— and N. J. Fetherolf. 1921. (1799)
Control of stem girdle of spruce transplants caused by excessive heat. Phytopath. 11: 485-490.
————, C. Hartley, L. F. Watts, and G. G. Hahn. 1921. (1800)
A chlorosis of conifers corrected by spraying with ferrous sulfate. Jour. Agr. Res. 21: 153-171.
Kotila, J. E. 1918. (1801)
Frost injury of potato tubers. Mich. Acad. Sci. Ann. Rept. 20: 451-460.
————. 1923. (1802)
Fall and winter care of potatoes. Mich. Agr. Exp. Sta. Quart. Bull. 6, 8-11.
————. 1929. (1803)
A study of the biology of a new spore-forming Rhizoctonia, Corticium praticola. Phytopath. 19: 1059-1099.
Kotte, W. 1929. (1804)
Rauchschäden an Steinobstfrüchten. Nachrichtenbl. Deutsch. Pflanzenschutzdienst 9 (11): 91-92.
————. 1930. (1805)
Über den Einfluss der H-Ionen-Konzentration auf das Wachstum einiger phytopathogener Bakterien. Phytopath. Zeitschr. 2: 443-454.
Kotthoff, P. and G. Friedrichs. 1929. (1806)
Der rote Brenner der Amaryllis. Obst- u. Gartenbauzeit 18: 32-33.
Kovacevski, I. C. 1930. (1807)
New investigations of the etiology of black rot of Sesame. (Russian). Ann. Univ. Sofia, Fac. Agron. et Sylvicult., 1929-1930, 455-468.
Krakover, L. J. 1917. (1808)
The leaf-spot disease of red clover caused by Macrosporium sarcinaeforme Cav. Mich. Acad. Sci. Rept. 19: 273-328.
Kränzlin, G. 1908. (1809)
Untersuchungen an panaschierten Pflanzen. Zeitschr. Pflanzenkr. 18: 193-203.
Kratzmann, E. 1914. (1810)
Zur physiologischen Wirkung der Aluminumsalze auf die Pflanze. Sitz. K. Akad. Wiss. Nat. Kl., Abt. I, 123: 221-239.
————. 1915. (1811)
The physiological action of salts of aluminum upon plants. Intern. Inst. Agr., Rome, Mo. Bull. Agr. Intel. and Pl. Diseases 6: 403-404. (Abst.).
Krauch, C. 1882. (1812)
Ueber Pflanzenvergiftungen. Jour. Landw. 30: 271-291.
Kraus, C. 1908. (1813)
Die Lagerung der Getreide.
Krause, A. W. 1930. (1814)
Untersuchungen über den Einfluss der Ernährung; Belichtung und Temperatur auf die Perithecienproduktion einiger Hypocreaceen. Zeitschr. Parasitenkunde 2: 419-476.
Krebs, H. 1927. (1815)
Nichtparasitäre Krankheiten der Kartoffel, hervorgerufen durch ungunstige Bodenverhältnisse, Wasser- und Nahrstoff-mangel. D. Prakt. Landw. 46: 213-214.
Kreitz, W. 1908. (1816)
Untersuchungen über die Schale verschiedener Kartoffelsorten und ihre Beeinflussung durch Bodenverhältnisse, Feuchtigkeit und Düngung. Arb. K. Biol. Anst. Land- u. Forstw. 6: 2-27.

Krout, W. S. 1921. (1818)
Treatment of celery seed for the control of Septoria blight. Jour. Agr. Res. 21: 369-372.
Kruger. 1910. (1819)
Maladies produites sur la betterave á sucre et ayant pour cause la reaction du sol. La Sucrerie Indig. et Colon. (Paris) 76: 505. (Abst.).
Krüger, F. 1913. (1820)
Beiträge zur Kenntnis einiger Gloeosporien I and II. Arb. K. Biol. Anst. Land- u. Forstw. 9: 233-323.
Krüger, W. and G. Wimmer. 1927. (1821)
Ueber nicht parasitäre Krankheiten der Zuckerrübe. Mitt. Anhalt. Versuchsstat., Bernburg, 65: 195-289.
Kuhle, L. 1908. (1822)
Ein erfolgreicher Versuch zur Bekampfung des Gersten—Flugbrandes. Illus. Landw. Zeit. 28: 578-579.
Kuhnholtz-Lordat, G. 1928. (1823)
Les chloroses. Prog. Agr. et Vitic. 89: 310-312.
Kulkarni, G. S. 1918. (1824)
Smuts of Jowar (Sorghum) in the Bombay Presidency. Pusa Agr. Res. Inst. India Bull. 78, 1-26.
————. 1922. (1825)
Conditions influencing the distribution of grain smut (Sphacelotheca sorghi) of Jowar (Sorghum) in India. Agr. Jour. India 17: 159-162.
Kunkle, L. O. 1914. (1826)
Physical and chemical factors influencing the toxicity of inorganic salts to Monilia sitophila (Mont.) Sacc. Bull. Torrey Bot. Club 41: 265-293.
————. 1920. (1827)
Further data on the orange-rusts of Rubus. Jour. Agr. Res. 19: 501-512.
Kuribayashi, K. 1928. (1828)
Studies on overwintering primary infection and control of rice blast fungus, Piricularia oryzae. (Japanese). Ann. Phytopath. Soc. Japan 2: 99-117.
Kurosawa, E. 1927. (1829)
Studies on Plasmopara cubensis (In Japanese). Jour. Nat. Hist. Soc., Formosa, 17: 1-18.
————. 1929. (1830)
On the cultural characters of the "bakanae" disease fungi on various nutrient media and the temperature for their development. Jap. Jour. Bot. 4: 90-91. (Abst.).
Kurz, H. 1923. (1831)
Hydrogen ion concentration in relation to ecological factors. Bot. Gaz. 76: 1-29.
————. 1930. (1832)
The relation of pH to plant distribution in nature. Amer. Nat. 64: 314-341.
Küster, E. 1916. (1833)
Beiträge zur Kenntnis des Laubfalles. Ber. Deutsch. Bot. Ges. 34: 184-193.
————. 1925. (1834)
Pathologische Pflanzenanatomie. Jena.
Kyle, C. H. 1930. (1835)
Relation between the vigor of the corn plant and its susceptibility to smut (Ustilago zeae). Jour. Agr. Res. 41: 221-231.
Labrousse, F. 1930. (1836)
Influence de la fumure sur la résistance d'une variété de laitue à la maladie du collet causée par le Sclerotinia libertiana. Rev. Path. Vég. et Ent. Agric. 17: 222-226.
———— and J. Sarejanni. 1930. (1837)
Recherches physiologiques sur quelques champignons parasites. Phytopath. Zeitschr. 2: 1-38.
Lagatu, H. and L. Maume. 1928. (1838)
Etude biochemique de la chlorose. Prog. Agr. et Vitic. 89: 116-119, 137-140, 165-168.
Lagerberg, T., C. Lundberg, and E. Melin. 1928. (1839)
Biological and practical researches into blueing in Pine and Spruce. Svenska Skog. Tidsskr., 1927, 145-272, 561-739.
Laibach, F. 1930. (1840)
Über die Bedingungen der Perithezienbildung bei den Erysipheen. Jahrb. Wiss. Bot. 72: 106-136.
Lambert, E. B. 1929. (1841)
The relation of weather to the development of stem rust in the Mississippi Valley. Phytopath. 19: 1-71.

———————. 1930. (1842)
Studies on the relation of temperature to the growth, parasitism, thermal death points, and control of Mycogone perniciosa. Phytopath. 20: 75-83.
Landgraf, K. E. 1929. (1843)
Bodenreaktion und Wachstum der Wiesenpflanzen. Zeitschr. Pflanzenernähr. u. Düng. (A) 13: 213-228.
Langhoffer, A. 1929. (1844)
Le dépérissement du Chêne en Yougoslavie, spécialement dans la Slavonie. Rev. Eaux et Forêts 67: 763-765.
Langlet, O. 1930. (1845)
Einige eigentümliche Schädigungen an Kiefernwald nebst einem Versuch, ihre Entstehung zu Erklären. Zeitschr. Pflanzenkrank. u. Pflanzenschutz 40: 261-265.
Larmer, F. G. and G. H. Coons. 1930. (1846)
The physiology and variations of Cercospora beticola in pure culture. Mich. Acad. Sci. Papers 11: 75-104.
LaRue, C. D. 1929. (1847)
The effect of environmental factors on the spore size of Pestalozzia guepini. Mich. Acad. Sci. 9: 227-237.
Larue, P. 1916. (1848)
Le brouillard et les maladies. Rev. Vitic. 44: 411-412.
Laubert, R. 1919. (1849)
Ungewöhnliche Flecke an Äpfeln und Birnen. Deut. Obstbau Zeit. 65: 255-256.
———————. 1927. (1850)
Eine merkwürdige neue Schädigung an Winteräpfeln. Obst- u. Gemüsebau 73: 15, 46-47.
Laurent, E. 1899. (1851)
Recherches expérimentales sur les maladies des plantes. Ann. Inst. Pasteur 13: 1-48.
———————. 1902. (1852)
De l'action interne du sulfate de cuivre dans la résistance de la pomme de terre au Phytophthora infestans. Compt. Rend. Acad. Sci. (Paris) 135: 1040-1042.
———————. 1911. (1853)
Les conditions physiques de resistance de la vigne au mildiou. Compt. Rend. Acad. Sci. (Paris) 152: 103-106.
Lauritzen, J. I. 1919. (1854)
The relation of temperature and humidity to infection by certain fungi. Phytopath. 9: 7-35.
———————. 1926. (1855)
Infection and temperature relations of black rot of sweet potatoes in storage. Jour. Agr. Res. 33: 663-676.
———————. 1926. (1856)
The relation of black rot to the storage of carrots. Jour. Agr. Res. 33: 1025-1041.
———————. 1929. (1857)
Rhizoctonia rot of turnips in storage. Jour. Agr. Res. 38: 93-108.
——————— and L. L. Harter. 1923. (1858)
The relation of humidity to the infection of sweet potatoes by Rhizopus. Phytopath. 13: 56. (Abst.).
——————— and ———————. 1923. (1859)
Species of Rhizopus responsible for the decay of sweet potatoes in the storage house and at different temperatures in infection chambers. Jour. Agr. Res. 24: 441-456.
——————— and ———————. 1925. (1860)
The influence of temperature on the infection and decay of sweet potatoes by different species of Rhizopus. Jour. Agr. Res. 30: 793-810.
——————— and ———————. 1926. (1861)
The relation of humidity to infection of the sweet potato by Rhizopus. Jour. Agr. Res. 33: 527-539.
——————— and R. C. Wright. 1930. (1862)
Some conditions affecting the storage of peppers. Jour. Agr. Res. 41: 295-305.
Lawrence, A. O. 1923. (1863)
Susceptibility of Eucalyptus to drought. Aust. Forestry Jour. 6: 133-134.
Lawrence, W. H. 1905. (1864)
Blackspot canker and blackspot apple rot. Jour. Mycol. 11: 164-165.
——————— and S. B. Johnson. 1915. (1865)
Sunscald of newly planted olive trees. Ariz. Agr. Exp. Sta. Ann. Rept. 26, 549-552.
Leach, J. G. 1921. (1866)
Colorado plant diseases. Colo. Agr. Exp. Sta. Bull. 259, 1-96.

———. 1923. (1867)
The parasitism of Colletotrichum lindemuthianum. Minn. Agr. Exp. Sta. Tech. Bull. 14, 1-41.
———. 1927. (1868)
The relation of insects and weather to the development of heart rot of celery. Phytopath. 17: 663-667.
———. 1930. (1869)
Survival of the potato-black-leg pathogene in the soil and some factors influencing infection. Phytopath. 20: 127. (Abst.).
———. 1930. (1870)
Potato blackleg: The survival of the pathogene in the soil and some factors influencing infection. Phytopath. 20: 215-228.
Leather, J. W. 1915. (1871)
Soil gases. Mem. Dept. Agr. India, Chem. Ser. 4 (3): 85-134.
Lebard, P. 1930. (1872)
Relations entre l'altitude l'humidité et les substitutions de dégénérescence de la pomme de terre. Compt. Rend. Acad. Agr. France 16: 999-1004.
Lebedeff, V. I. 1929. (1873)
Blue stain of timber and the turpentine industry. (Russian) Trans. Indus. Res. Inst., Archangel, (5), 1-60.
Lebedeva, L. A. 1927. (1874)
Phenological observations on plant diseases in Russia in 1927. (Russian). Mater. Mycol. Phytopath. 6: 227-238.
Lebenbauer, P. A. 1920. (1875)
The control of carnation stem rot. Florists' Exch. 49: 253-254, 316, 318.
Lebrun, L. 1910. (1876)
Le rot-gris en 1910. Prog. Agr. et Vitic. 54: 502-509.
LeClerg, E. L. 1927. (1877)
Leaf temperature in relation to tip-burn of lettuce. Phytopath. 17: 44-45. (Abst.).
Lecoq, R. 1927. (1878)
Le chlorose de la vigne. Jardinage 14: 279.
Lee, H. A. 1917. (1879)
A new bacterial citrus disease. Jour. Agr. Res. 9: 1-8.
———. 1924. (1880)
Sugar-cane diseases. Proc. Intern. Conf. Soc. Sugar-cane Technologists 1: 9-12.
———. 1926. (1881)
Pathology. Rept. Exp. Sta. Com., 45th Ann. Meeting Hawaiian Sugar Planters' Assoc., 1925, 39-48.
———. 1928. (1882)
Experiments showing the cause of leaf burn of sugar cane. Hawaiian Planters' Rec. 32: 50-56.
———. 1929. (1883)
The toxic substance produced by the eye spot fungus of sugar-cane, Helminthosporium sacchari Butler. Plant Physiol. 4: 193-212.
———, J. P. Martin, and H. A. Purdy. 1925. (1884)
Diagnostic studies of the organism of red-stripe disease. Pamphlet Exp. Sta. Hawaiian Sugar Planters' Assoc., 18-24.
——— and ———. 1928. (1885)
Effect of fertilizer constituents on the eye-spot disease of sugar cane. Jour. Indus. and Engin. Chem. 20: 220-224.
——— and J. S. McHargue. 1928. (1886)
The effect of a manganese deficiency on the sugar cane plant and its relationship to Pahala blight of sugar cane. Phytopath. 18: 775-786.
Lehman, S. G. 1923. (1887)
Pod and stem blight of soybean. Ann. Mo. Bot. Gard. 10: 111-178.
———. 1925. (1888)
Studies on the treatment of cotton seed. N. C. Agr. Exp. Sta. Tech. Bull. 26, 1-71.
———. 1928. (1889)
Frog-eye leaf spot of soy bean caused by Cercospora diazu Miura. Jour. Agr. Res. 36: 811-833.
Lendner, A. 1897. (1890)
Des influences combinées de la humière et du substratum sur le développement des champignons. Ann. Sci. Nat., Ser. 8, 3: 1-64.

———. 1930. (1891)
Determination de Mucorinées (Deux Mucors nouveaux). Bull. Soc. Bot. Geneve, Ser. 2, 2: 256-263.
Leonard, L. T. 1923. (1893)
An influence of moisture on bean wilt. Jour. Agr. Res. 24: 749-752.
———. 1924. (1894)
Effect of moisture on a seed-borne bean disease. Jour. Agr. Res. 28: 489-497.
Leonian, L. H. 1919. (1895)
Fusarium wilt of Chile pepper. N. Mex. Agr. Exp. Sta. Bull. 121, 1-32.
———. 1924. (1896)
A study of factors promoting pycnidium-formation in some Sphaeropsidales. Amer. Jour. Bot. 11: 19-50.
———. 1929. (1897)
Studies on the variability and dissociations in the genus Fusarium. Phytopath. 19: 753-768.
Leroux, L. 1925. (1898)
La chlorose des plantes. Rev. Gén. Sci. 36: 418-420.
Lesage, P. 1894. (1899)
Recherches physiologiques sur les champignons. Compt. Rend. Acad. Sci. (Paris) 118: 607-610.
———. 1895. (1900)
Recherches expérimentales sur la germination des spores du Penicillium glaucum. Ann. Sci. Nat. Bot., Ser. 8, 1: 309-322.
Lesczenko, P. 1930. (1901)
Influence of mineral fertilizers on the development of potato scab. (English Sum.). Trans. Phytopath. Sect. State Inst. Agr. Sci., Bydgoszcz, 9: 15-23; also Biol. Absts. 5: 1046, 1931.
Letow, A. S. 1930. (1902)
Über die Bedeutung der Sclerotinia libertiana Fuckel auf Sonnenblumen. Phytopath. Zeitschr. 2: 167-180.
Leukel, R. W., J. G. Dickson, and A. G. Johnson. 1929. (1903)
Experiments on stripe disease of barley and its control. Phytopath. 19: 81. (Abst.).
Levin, E. 1915. (1904)
Light and pycnidia formation in the Sphaeropsidales. Mich. Acad. Sci. Rept. 17: 134-135.
———, E. A. Bessey, and G. H. Coons. 1916. (1905)
The leaf-spot disease of tomatoes. Mich. Agr. Exp. Sta. Tech. Bull. 25, 1-51.
Levine, M. N. 1921. (1906)
Studies on plant cankers III. Amer. Jour. Bot. 8: 507-525.
———. 1928. (1907)
Biometrical studies on the variation of physiologic forms of Puccinia graminis tritici and the effects of ecological factors on the susceptibility of wheat varieties. Phytopath. 18: 7-123.
Lewakoffski, N. 1873. (1908)
Ueber den Einfluss des Wassers auf das Wachstum der Stengel und Wurzeln einiger Pflanzen. Just's Bot. Jahrb. 1: 594. (Abst.).
Lewis, C. E. 1913. (1909)
Comparative studies of certain disease producing species of Fusarium. Me. Agr. Exp. Sta. Bull. 219, 203-258.
Lewis, C. I. 1915. (1910)
Fruit-pit studies in the Willamette valley. Ore. Agr. Exp. Sta., Crop Pest and Hort. Rept., 1913-1914, 35-37.
Lewis, D. E. 1913. (1911)
The control of apple blotch. Kan. Agr. Exp. Sta. Bull. 196, 519-574.
Lewis, I. M. 1914. (1911a)
A bacterial disease of Erodium and Pelargonium. Phytopath. 4: 221-231.
——— and E. Watson. 1927. (1912)
A bacterial disease of Bowlesia. Phytopath. 17: 507-512.
Lex, O. 1928. (1913)
Untersuchungen über das Auftreten und die Bekampfung der Dorrfleckenkrankheit des Hafers. Diss. Kiel.
Liese, J. 1927. (1914)
Nadelverlust der Kiefer durch Hagel. Forstarchiv. 3: 237-238.

Lilienshtern, M. F. 1927. (1915)
The antagonistic influence of hydrogen and calcium ions on the development of Saprolegnia. (Russian). Chem. Absts. 21: 3217.
Limber, D. P. 1927. (1916)
Fusarium moniliforme in relation to diseases of corn. Ohio Jour. Sci. 27: 232-246.
Lindfors, T. 1924. (1917)
Einige Kulturversuche mit Fusarium-Arten in Nährlösungen von verschiedener Wasserstoffionenkonzentration. Bet. Not., 1924, 161-171.
————. 1924. (1918)
Bidrag till kännedomen om klumpratsijukans bekämpande. K. Landtbr. Akad. Handl. Tidsskr. 63: 267-287.
Line, J. 1926. (1919)
Aluminum and acid soils. Jour. Agr. Sci. 16: 335-364.
Linford, M. B. 1926. (1920)
Black-leaf of peas caused by Fusicladium pisicola n. sp. Phytopath. 16: 549-558.
————. 1928. (1921)
A Fusarium wilt of peas in Wisconsin. Wis. Agr. Exp. Sta. Res. Bull. 85, 1-44.
Link, G. K. K. 1916. (1922)
A physiological study of two strains of Fusarium in their causal relation to tuber rot and wilt of potato. Nebr. Agr. Exp. Sta. Res. Bull. 9, 1-45.
————. 1916. (1923)
A physiological study of two strains of Fusarium in their causal relation to tuber rot and wilt of potato. Bot. Gaz. 62: 169-209.
————. 1923. (1924)
Mosaic and leaf roll of the potato in the Northwest. Phytopath. 13: 39. (Abst.).
————, G. B. Ramsey, and A. A. Bailey. 1924. (1925)
Botrytis rot of the globe artichoke. Jour. Agr. Res. 29: 85-92.
Lipman, C. B. 1914. (1926)
The poor nitrifying power of soils a possible cause of "die-back" (Exanthema) in lemons. Science 39: 728-730.
————. 1915. (1927)
A suggestion of a new phase of the problem of physiological diseases of plants. Phytopath. 5: 111-116.
————, A. R. Davis, and E. S. West. 1926. (1928)
The tolerance of plants for NaCl. Soil Sci. 22: 303-322.
———— and W. F. Gericke. 1917. (1929)
Experiments on the effects of constituents of solid smelter wastes on barley growth in pot cultures. Univ. Calif. Publ. Agr. Sci. 1: 495-587.
———— and F. H. Wilson. 1913. (1930)
Toxic inorganic salts and acids as affecting plant growth. Bot. Gaz. 55: 409-420.
Lisges, H. 1923. (1931)
Die Einwirkung niedriger Wörmegrade auf die Pflanze. Deut. Obst- u. Gemüsebau Zeit. 69: 344-347.
Little, W. C. 1883. (1932)
Report on wheat mildew. Jour. Roy. Hort. Soc., London, 19: 634-691.
Liu, H. 1926. (1933)
The salt requirements of tobacco grown in sand cultures. Md. Agr. Exp. Sta. Bull. 288, 133-154.
Livingston, B. E. and E. E. Free. 1917. (1934)
The effect of deficient soil oxygen on the roots of higher plants. Johns Hopkins Univ. Circ. n. s. 3: 182-185.
———— and F. Shreve. 1921. (1935)
The distribution of vegetation in the United States, as related to climatic conditions. Carnegie Inst., Washington, Publ. 284, 1-590.
Lloyd, F. E. 1914. (1936)
Abscission. Ottawa Naturalist 28: 42-52, 61-75.
————. 1920. (1937)
Environmental changes and their effect on boll shedding in cotton. N. Y. Acad. Sci. 29: 1-131.
————. 1921. (1938)
Abscission of fruits in Juglans californica quercina. Proc. and Trans. Roy. Soc. Canada, III, 14: 17-22.

Lochhead, W. 1905. (1939)
Some fungus troubles of the year. Ont. Agr. Col. and Exp. Farm Ann. Rept. 31, 52-58.
Lodeman, E. G. 1894. (1940)
Some grape troubles of western New York. N. Y. (Cornell) Agr. Exp. Sta. Bull. 76, 413-454.
Lodewijks, J. A. 1910. (1941)
Zur Mosaikkrankheit des Tabaks. Rec. Trav. Bot. Nederland 7: 107-129.
Loehwing, W. F. 1928. (1942)
Some physico-chemical effects of organic soil colloids. Proc. Iowa Acad. Sci. 34: 149-152.
Loew, O. and W. May. 1901. (1943)
The relation of lime and magnesia to plant growth. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 1, 1-53.
———— and S. Sawa. 1902. (1944)
On the action of manganese compounds on plants. Bull. Col. Agr. (Tokyo) 5: 161-172.
Löhnis, M. P. 1923. (1945)
On the resistance of the potato tuber against Phytophthora. Rept. Intern. Conf. Phytopath. and Econ. Ent. Holland, 174-179.
————. 1925. (1946)
Onderzoek naar het verband tusschen de weersgesteldheid en de Aardappelziekte (Phytophthora infestans) en naar de eigenschappen, die de vatbaarheid der knollen voor deze ziékte bepalen. Meded. Wetensch. Comm. voor Advies en Onderzoek in het Belang van de Volkswelvaart en Weerbaarheid. 129 pp.
————. 1926. (1947)
An investigation on the relation between the weather conditions and the occurrence of potato blight (Phytophthora infestans); and on the qualities that determine the degree of susceptibility of the tubers for this disease. Centbl. Bakt. 66: 144-148.
Long, W. H. 1922. (1948)
Mistletoe and smelter smoke. Phytopath. 12: 535-536.
Longman, S. 1909. (1949)
The dry-rot of potatoes. Jour. Linn. Soc. Bot. 39: 120-129.
Losch, H. 1921. (1950)
Eine Beobachtung über Apfelmehltaubefall und seine Beziehung zur örtlichen Läge. Zeitschr. Pflanzenkr. 31: 22-24.
Loucks, K. W. 1929. (1951)
Citrus canker. Fla. Agr. Exp. Sta. Ann. Rept., 1928, 67.
————. 1930. (1952)
Some physiological studies of Phytomonas citri. Jour. Agr. Res. 41: 247-258.
Loughridge, R. H. 1900. (1953)
Effect of alkali on citrus trees. Calif. Agr. Exp. Sta. Ann. Rept., 1897-1898, 99-113.
————. 1901. (1954)
Tolerance of alkali by various cultures. Calif. Agr. Exp. Sta. Bull. 133, 1-43.
Lounsbury, C. P. 1908. (1955)
The Fusicladium disease of the pear and apple. Cape Good Hope Agr. Jour. 33: 16-32.
Lowther, G. 1913. (1956)
Apple rosette. Proc. Wash. State Hort. Assoc. 9: 28-37.
Ludwig, C. A. 1918. (1957)
The influence of illuminating gas and its constituents on certain bacteria and fungi. Amer. Jour. Bot. 5: 1-31.
Ludwig, O. 1928. (1958)
Untersuchungen an Ascochyta pisi Lib. Beitr. Biol. Pflanzen 16: 464-510.
Ludwigs, K. 1923. (1959)
Beobachtungen über die Bodensäurekrankheit an Getreide. Nachrichtenbl. d. Pflanzenschutz. 3: 41-42.
Lundegårdh, H. 1923. (1960)
Die Bedeutung des Kohlensäure—gehalts und der Wasserstoffionkonzentration des Bodens für die Entstehung der Fusariosen. Bot. Not., 1923, 25-52.
————. 1924. (1961)
Der Einfluss der Wasserstoffion-konzentration in Gegenwart von Salzen auf das Wachstum von Gibberella saubinetii. Biochem. Zeitschr. 146: 564-572.
————. 1924. (1962)
Ueber die Interferenzwirkung von Wasserstoffionen und Neutralsalzionen auf Keimung und Wachstum des Weizens. Biochem. Zeitschr. 149: 207-215.

———. 1927. (1963)
Vaxtfysiologien i sin tillämpning pa jordbruket. K. Landtbr. Akad. Handl. Tidsskr. 66: 151-166.
———. 1927. (1964)
Carbon dioxide evolution of soil and crop growth. Soil Sci. 23: 417-453.
———. 1929. (1965)
Utsädesbetning. De vid Centralanstaltens Botaniska avdelning pågående undersökningarna. Landtmannen 12: 115-116.
Lungren, E. A. and L. W. Durrell. 1928. (1966)
Seed treatments for stinking smut of wheat. Colo. Agr. Exp. Sta. Bull. 333, 1-12
Lustner, G. 1906. (1967)
Untersuchungen über die Peronospora-epidemien der Jahre 1905 und 1906. Ber. Lehru. Forschungsanst. Wein, Obst- u. Gartenbau Geisenheim, 119-140.
Lutman, B. F. 1911. (1968)
Potato diseases and the weather. Vt. Agr. Exp. Sta. Bull. 159, 248-296.
———. 1919. (1969)
Tip-burn of the potato and other plants. Vt. Agr. Exp. Sta. Bull. 214, 1-28.
——— and G. C. Cunningham. 1914. (1970)
Potato scab. Vt. Agr. Exp. Sta. Bull. 184, 1-64.
——— and N. L. Walbridge. 1929. (1971)
The rôle of magnesium in the aging of plants. Vt. Agr. Exp. Sta. Bull. 296, 1-48.
Lutz, O. 1909. (1972)
Ueber den Einfluss gebrauchter Nährlösungen auf Keimung und en Entwicklung einiger Schimmelpilze. Ann. Mycol. 7: 91-133.
Lyon, T. L. and H. O. Buckman. 1922. (1973)
The nature and properties of soils. New York.
——— and A. Keyser. 1905. (1974)
Winter wheat. Nebr. Agr. Exp. Sta. Bull. 89, 1-51.
Lyttkens, A. 1894. (1975)
Arseniks inflytande på växter. K. Landtbr. Akad. Handl. Tidsskr. 33: 317-320.
Maas, H. 1927. (1976)
Die Kalidüngung als Mittle gegen Rost und Lagerfrucht. Ernähr. Pflanze 23: 53-55.
Maas, J. 1929. (1977)
Cyanogas-Schäden bei Cinerarien. Die Gartenwelt 33: 217.
Macchiati, L. 1894. (1978)
La bacteriosis des grappes de la vigne. Rev. Intern. Vit. et Oenol. 1: 98-109, 129-136.
MacDaniels, L. H. and A. J. Heinicke. 1930. (1979)
To what extent is "spray burn" of apple fruit caused by the freezing of the flowers? Phytopath. 20: 903-906.
MacDougal, D. T. 1902. (1980)
Effect of lightning on trees. Jour. N. Y. Bot. Gard. 3: 131-135.
MacInnes, J. 1922. (1981)
The growth of the wheat scab organism in relation to hydrogen-ion concentration. Phytopath. 12: 290-294.
——— and R. Fogelman. 1923. (1982)
Wheat scab in Minnesota. Minn. Agr. Exp. Sta. Tech. Bull. 18, 1-32.
Machacek, J. E. 1928. (1983)
Studies on the association of certain phytopathogens. Quebec Soc. Prot. Plants Ann. Rept. 20, 16-63.
MacMillan, H. G. 1918. (1984)
An epidemic of corn smut following hail. Phytopath. 8: 584-585.
———. 1918. (1985)
Sunscald of beans. Jour. Agr. Res. 13: 647-650.
———. 1919. (1986)
Fusarium-blight of potatoes under irrigation. Jour. Agr. Res. 16: 279-303.
———. 1920. (1987)
A frost injury of potatoes. Phytopath. 10: 423-424.
———. 1922. (1988)
Influence of the meteorological factors on potato disease and production in Colorado. Phytopath. 12: 445. (Abst.).
———. 1923. (1989)
Potato mosaic masking at high altitudes. Phytopath. 13: 39. (Abst.).
———. 1923. (1990)
Cause of sunscald of beans. Phytopath. 13: 376-380.

———. 1926. (1991)
Irrigation and diseases. Amer. Potato Jour. 3: 198-201.
——— and L. P. Byars. 1920. (1992)
Heat injury to beans in Colorado. Phytopath. 10: 365-367.
——— and G. A. Meckstroth. 1925. (1993)
The critical temperature for infection of the potato seed piece by Fusarium oxysporum. Jour. Agr. Res. 31: 917-921.
Macoun, W. T. 1908. (1994)
Winter injury to fruit trees. Canada Exp. Farms Rept., 110-116.
———. 1909. (1995)
Overcoming winter injury. Proc. Amer. Soc. Hort. Sci. 6: 15-27.
———. 1916. (1996)
The apple in Canada, its cultivation and improvement. Cent. Exp. Farms Canada Bull. 86, 1-136.
———. 1918. (1997)
Winter injury in Canada. Proc. Amer. Soc. Hort. Sci. 15: 13-17.
Macrae, N. A. 1930. (1998)
Preliminary report on studies of loose smut of barley. Proc. Canadian Phytopath. Soc., 1929, 44-47.
Magee, C. J. P. 1927. (1999)
Investigation on the bunchy top disease of banana. Aust. Council Sci. and Indus. Res. Bull. 30, 1-64.
Magistad, O. C. 1925. (2000)
The aluminum content of the soil solution and its relation to soil reaction and plant growth. Soil Sci. 20: 181-225.
——— and E. Truog. 1925. (2001)
The influence of fertilizers in protecting corn against freezing. Jour. Amer. Soc. Agron. 17: 517-526.
Magness, J. R. 1928. (2002)
Winter injury of apple trees. Wash. Agr. Exp. Sta. Bull. 229, 34.
———. 1929. (2003)
Collar rot of apple trees. Wash. Agr. Exp. Sta. Bull. 236, 1-18.
Mains, E. B. 1915. (2004)
Some factors concerned in the germination of rust spores. Mich. Acad. Sci. Rept. 17: 136-140.
———. 1917. (2005)
The relation of some rusts to the physiology of their hosts. Amer. Jour. Bot. 4: 179-220.
——— and D. Thompson. 1928. (2006)
Studies on snapdragon rust, Puccinia antirrhini. Phytopath. 18: 150. (Abst.).
Maire, R. 1898. (2007)
Note sur le développement saprophytique et sur la structure cytologique des sporidieslevûres chez l'Ustilago maydis. Bull. Soc. Mycol. France 14: 161-173.
Maiwald, K. 1926. (2008)
Chlorosis grüner Pflanzen als Folge des Nährstoffnerhaltnisses im Boden. Actes IV Conf. Intern. Pedol., Rome, 1924 (3), 618.
Major, T. G. 1923. (2009)
Cultural characteristics of certain species of Fusarium. Quebec Soc. Prot. Plants Ann. Rept. 15, 79-88.
Makemson, W. K. 1918. (2010)
The leaf mold of tomato, caused by Cladosporium fulvum Cke. Mich. Acad. Sci. Rept. 20: 309-350.
Malherbe, I. de V. 1929. (2011)
Chlorotic diseases of fruit trees. Their causes and remedies. Farming in So. Africa, Pretoria, 4: 49-50, 54.
Mandelson, L. F. 1927. (2012)
Black root-rot of tobacco in N. S. Wales. Agr. Gaz. N. S. Wales 38: 523-531.
Maneval, W. E. 1922. (2013)
Germination of teliospores of rust at Columbia, Missouri. Phytopath. 12: 471-488.
———. 1927. (2014)
Further germination tests with teliospores of rusts. Phytopath. 17: 491-498.
Mangin, L. 1895. (2015)
Sur l'aeration du sol dans les promenades et plantations de Paris. Compt. Rend. Acad. Sci. (Paris) 120: 1065-1068.

———. 1896. (2016)
Études sur la végétation dans ses rapports avec l'aération du sol. Ann. Sci. Agron. 2: 1-69.
———. 1901. (2017)
Influence de la raréfaction produite dans la tige sur la formation de thylles gommeuses. Compt. Rend. Acad. Sci. (Paris) 133: 305-307.
———. 1914. (2018)
La question du piétin. Jour. Agr. Prat. 27 (8): 236-239.
———. 1919. (2019)
L'action nocive des émanations de l'usine de Chedde. Min. Agr. France, Ann. Serv. Épiphyties 6: 187-199.
Mann, C. E. T. 1925. (2020)
The physiology of the nutrition of fruit trees. I. Some effects of calcium and potassium starvation. Univ. Bristol Agr. and Hort. Res. Sta. Ann. Rept., 1924, 30-45.
Mann, H. B. 1930. (2021)
Availability of manganese and of iron as affected by applications of calcium and magnesium carbonates to the soil. Soil Sci. 30: 117-141.
Mann. H. H. et al. 1921. (2022)
Investigations on potato cultivation in Western India. Bombay Dept. Agr. Bull. 102, 84-142.
——— and C. M. Hutchinson. 1907. (2023)
Cephalerous virescens, Kunze: The "red rust" of tea. Mem. Dept. Agr. India, Bot. Ser. 1 (6): 1-33.
——— and S. D. Nagpurkar. 1922. (2024)
Further investigations on the Fusarium blights of potatoes in Western India. Agr. Jour. India 17: 564-576.
Manns, T. F. 1909. (2025)
The blade blight of oats—a bacterial disease. Ohio Agr. Exp. Sta. Bull. 210, 91-167.
———. 1911. (2026)
The Fusarium blight (wilt) and dry rot of the potato. Ohio Agr. Exp. Sta. Bull. 229, 299-336.
———. 1915. (2027)
Some new bacterial diseases of legumes and the relationship of the organisms causing the same. Del. Agr. Exp. Sta. Bull. 108, 1-41.
———. 1922. (2028)
Soil bacteriology. Del. Agr. Exp. Sta. Ann. Rept., Bull. 133, 35-36.
———. 1922. (2029)
Fungus disease and other seasonal conditions for 1921. Trans. Penin. Hort. Soc. 35: 140-144.
——— and J. F. Adams. 1927. (2030)
Department of Plant Pathology. Del. Agr. Exp. Sta. Bull. 152, 40-51.
Manschke, R. 1928. (2031)
Die Bedeutung des Säuregrads des Bodens für den Pflanzenbau. Die Kranke Pflanze 5: 182-185.
———. 1929. (2032)
Schädliche Wirkung des bituminösen Strassenstaubs auf die Vegetation. Die Kranke Pflanze 6: 23-25.
Manshard, E. 1927. (2033)
Krankheiten und Schädlinge im Saatbeet der forstlich wichtigsten Holzarten. Mitt. Deut. Dendrol. Ges., 198-229.
———. 1927. (2034)
Der Wert der rechtzeitigen Erkennung von Hafererkrankung aus sauren Boden. Illus. Landw. Zeit. 47: 506-507.
Maquenne, L. and E. Demoussy. 1920. (2035)
Sur la toxicité du fer et les propriétés antitoxiques du cuivre vis-à-vis des sels ferreux. Compt. Rend. Acad. Sci. (Paris) 171: 218-222.
——— and ———. 1920. (2036)
La cuivre dans la terre et les plantes. Bull. Soc. Chim. France, Ser. 4, 27: 266-278.
Marais, E. N. 1914. (2037)
Notes on some effects of extreme drought in Waterberg, South Africa. Jour. Dept. Agr. So. Africa 7: 161-170.
Marchal, E. 1902. (2038)
De l'immunisation de la Laitue contre le Meunier. Compt. Rend. Acad. Sci. (Paris) 135: 1067-1068.

———. 1903. (2040)
Recherches sur la rouille des céréales. Bull. Agr. Belg. 19: 114-153.
———. 1903. (2041)
Recherches sur la rouille des céréales. Bruxelles.
———. 1925. (2042)
Immunité et prédesposition des plantes vis-à-vis des parasites végéteaux. Rev. Bot. Appl. et Agr., Colon, 5: 177-182.
———. 1925. (2043)
Éléments de pathologie végétale appliquée à l'agronomie et à la sylviculture. Gembloux.
———. 1929. (2044)
Les maladies cryptogamiques de la Betterave. Sucrerie Belge 48: 449-457.
Marguerite-Delarcharlonny, P. 1890. (2045)
La chlorose et le sulfate de fer terrains a chlorose sinéferreuse. Jour. Agr. Prat. 1: 851-855.
Marloth, R. 1925. (2046)
I. Further investigations into the causes producing rosette of apricot and plum trees in the Wellington district. Dept. Agr. So. Africa Sci. Bull. 42, 1-23.
Marloth, R. H. 1929. (2047)
Hydrogen-ion concentration studies on Penicillium italicum and P. digitatum. Phytopath. 19: 1142. (Abst.).
Marsh, R. P. and J. W. Shive. 1925. (2048)
Adjustment of iron supply to requirements of soy bean in solution culture. Bot. Gaz. 79: 1-27.
Martin, H. 1930. (2049)
The defoliation of gooseberries by sulphur-containing sprays. Jour. S. E. Agr. Coll., Wye, Kent, 27: 182-185.
Martin, J. P. 1928. (2050)
Control of eye spot disease. Hawaiian Planters' Rec. 32: 391-394.
——— and H. A. Lee. 1926. (2051)
The effect of drying on the eye spot fungus. Hawaiian Planters' Rec. 30: 475-476.
Martin, W. H. 1920. (2052)
The influence of sulfur on soil acidity and the control of potato scab. N. J. Agr. Exp. Sta. Ann. Rept. 41, 590-598.
———. 1920. (2053)
The relation of sulfur to soil acidity and to the control of potato scab. Soil Sci. 9: 393-408.
———. 1922. (2054)
The influence of the source of nitrogen on the prevalence of potato scab. N. J. Agr. Exp. Sta. Ann. Rept. 43, 596-599.
———. 1923. (2055)
Late blight of potatoes and the weather. N. J. Agr. Exp. Sta. Bull. 384, 1-28.
———. 1923. (2056)
Influence of soil moisture and acidity on the development of potato scab. Soil Sci. 16: 69-73.
———. 1930. (2057)
Plant pathology at the New Jersey Stations. N. J. Agr. Exp. Sta. Ann. Rept. 51, 45, 46-51, 235-254.
——— et al. 1929. (2058)
Plant pathology. N. J. Agr. Exp. Sta. Ann. Rept. 50, 39-43.
——— and E. S. Clark. 1928. (2059)
Apple scab studies. N. J. Agr. Exp. Sta. Ann. Rept., 1927, 218-221.
Massee, G. 1903-1904. (2060)
On a method for rendering cucumber and tomato plants immune against fungus parasites. Jour. Roy. Hort. Soc., London, 28: 142-145.
———. 1904. (2061)
The origin of parasitism in fungi. Jour. Bd. Agr., London, 11: 152-154. (Abst.).
———. 1909. (2062)
Injuries to plants due to hail and frost. Roy. Bot. Garden, Kew, Bull. Misc. Inform. 2, 53-55.
Massey, L. M. 1926. (2063)
Fusarium rot of gladiolus corms. Phytopath. 16: 509-523.
———. 1928. (2064)
Dry rot of gladiolus corms. Phytopath. 18: 519-529.

Massey, R. E. 1927. (2065)
On the relation of soil temperature to angular leaf-spot of cotton. Ann. Bot. 41: 497-507.
————. 1928. (2066)
Work of the section of Plant Physiology and Pathology. Sudan Agric. Res. Repts., 1926-1927, 120-142.
————. 1929. (2067)
Blackarm disease of cotton. The development of Pseudomonas malvacearum E. F. Smith within the cotton plant. Empire Cotton Growing Rev. 6: 124-153.
Matruchot, L. and M. Molliard. 1903. (2068)
Sur le Phytophthora infestans. Ann. Mycol. 1: 540-543.
Matsumoto, T. 1921. (2069)
Studies in the physiology of fungi. XII. Physiological specialization in Rhizoctonia solani Kuhn. Ann. Mo. Bot. Gard. 8: 1-62.
————. 1923. (2070)
Further studies on the physiology of Rhizoctonia solani Kuhn. Bull. Imp. Col. Agr. and Forestry Japan 5: 1-63.
————. 1924. (2071)
Physiological studies on Gloeosporium with special reference to the strains obtained from apple and cherry. Bull. Imp. Col. Agr. and Forestry Japan 8: 15-50.
————. 1928. (2072)
On the sclerotial fungus accompanied by the so-called winter injury of barley, wheat and rye. (Japanese). Jour. Plant Protection 15: 1-6.
————. 1928. (2073)
Beobachtungen über Sporenbildungen des Pilzes Cercosporina kikuchii. Ann. Phytopath. Soc. Japan 2: 65-69.
Matsuura, I. 1927. (2074)
Comparative studies on four Hyphomycetes pathogenic to rice seedlings. Jour. Microbiol. Soc. 21: 1551-1572.
Matthews, C. D. 1927. (2075)
Lettuce investigations. N. C. Agr. Exp. Sta. Ann. Rept. 50, 86-87.
Maubeuge, R. 1927. (2076)
Düngung und Rostbefall. Zeitschr. Landw. Neiderschles. 31: 1247-1248.
Maximow, N. A. 1914. (2077)
Experimentelle und kritische Untersuchungen über das Gefrieren und Erfrieren der Pflanzen. Jahrb. Wiss. Bot. 53: 327-420.
Mayer, A. 1886. (2078)
Ueber die Mosaickrankenheit des Tabaks. Landw. Vers. Sta. 32: 450-467.
Maynard, J. G. and R. W. Marsh. 1929. (2079)
Spraying trials against apple scab at Long Ashton in 1928. Ann. Rept. Agr. and Hort. Res. Sta., Long Ashton, Bristol, 1928, 112-123.
Mazé, P. 1911. (2080)
Sur la chlorose expérimentale du mais. Compt. Rend. Acad. Sci. (Paris) 153: 902-905.
————. 1914. (2081)
Note sur les chloroses des végétaux. Compt. Rend. Soc. Biol. (Paris) 77: 539-541.
————, Rout, and Lemoigne. 1912. (2082)
Recherches sur la chlorose végétale provoquée par le carbonate de calcium. Compt. Rend. Acad. Sci. (Paris) 155: 435-437.
————, ————, and ————. 1913. (2083)
Chlorose calcaire des plantes vertes. Rôle des excrétions des racines dans l'absorption du fer des sols calcaires. Compt. Rend. Acad. Sci. (Paris) 157: 495-498.
McAdie, A. G. 1913. (2084)
Report on recent destructive frosts in California. U. S. Dept. Agr., Mo. Weather Rev. 41: 120-122.
McAlpine, D. 1902. (2085)
Bitter pit and crinkle of the apple. Jour. Dept. Agr. Victoria 1: 910-912.
————. 1904. (2086)
Black spot of the apple. Dept. Agr. Victoria Bull. 7, 1-32.
————. 1906. (2087)
The rusts of Australia. Melbourne.
————. 1909. (2088)
Experiments relating to rust and smut resistance. Jour. Dept. Agr. Victoria 7: 255-260.
————. 1911. (2089)
Handbook of fungous disease of the potato in Australia and their treatment. Melbourne.

———. 1911-1912. (2090)
Bitter pit investigation. The past history and present position of the bitter pit question. Prog. Rept. Bitter Pit Invest. Aust. 1: 1-197.
———. 1912-1913. (2091)
The cause of bitter pit: Its contributing factors, together with an investigation of susceptibility and immunity in apple varieties. Prog. Rept. Bitter Pit Invest. Aust. 2: 1-224.
———. 1914-1915. (2092)
Bitter pit investigations—the experimental results in their relation to bitter pit and a general summary of the investigation. Rept. Bitter Pit Invest. Aust. 4: 1-178.
———. 1915-1916. (2093)
Bitter-pit investigation. The cause and control of bitter pit. Rept. Bitter Pit Invest. Aust. 5: 1-144.
McCall, A. G. and J. R. Haag. 1921. (2094)
The relation of the hydrogen-ion concentration of nutrient solutions to growth and chlorosis of wheat plants. Soil Sci. 12: 69-77.
McCallum, W. B. 1909. (2095)
Plant physiology and pathology. Ariz. Agr. Exp. Sta. Ann. Rept. 20, 583-586.
McCleery, F. C. 1929. (2096)
Exanthema of citrus in New South Wales. Agr. Gaz. N. S. Wales 40: 397-406.
McClelland, E. H. 1913. (2097)
Bibliography of smoke and smoke prevention. Mellon Inst. Ind. Res. Bull. 2, 1-164.
McClintock, J. A. 1917. (2098)
Sweet-potato diseases. Va. Truck Exp. Sta. Bull. 22, 455-486.
McConnell, P. 1902. (2099)
The elements of agricultural geology. A scientific aid to practical farming. London.
McCool, M. 1913. (2100)
The action of certain nutrient and nonnutrient bases on plant growth. N. Y. (Cornell) Agr. Exp. Sta. Mem. 2, 115-216.
McCready, S. B. 1907. (2101)
Injurious fungus diseases of the year 1907. Ont. Agr. Col. and Exp. Farm Ann. Rept. 33, 48-49.
McCubbin, W. A. 1915. (2102)
Report of St. Catharines Field Laboratory. Cent. Exp. Farm Rept., Canada, 2, 966-988.
———. 1916. (2103)
Report of St. Catharines Field Laboratory. Cent. Exp. Farm Rept., Canada, 3, 1134-1144.
———. 1925. (2104)
Winter injury. Forest Leaves 20: 4-5.
———. 1926. (2105)
Metal poisoning in peaches. Proc. Penn. Acad. Sci. 1: 58-59.
McCue, C. A. and W. C. Pelton. 1913. (2106)
Tomatoes for the canning factory. Del. Agr. Exp. Sta. Bull. 101, 1-86.
McCulloch, L. 1911. (2107)
A spot disease of cauliflower. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 225, 1-15.
———. 1920. (2108)
Basal glumerot of wheat. Jour. Agr. Res. 18: 543-551.
———. 1924. (2109)
A bacterial blight of gladioli. Jour. Agr. Res. 27: 225-229.
———. 1924. (2110)
A leaf and corm disease of gladioli caused by Bacterium marginatum. Jour. Agr. Res. 29: 159-177.
———. 1925. (2111)
Aplanobacter insidiosum n. sp., the cause of an alfalfa disease. Phytopath. 15: 496-497.
———. 1929. (2112)
A bacterial leaf spot of horse-radish caused by Bacterium campestre var. armoraciae n. var. Jour. Agr. Res. 38: 269-287.
——— and C. Thom. 1928. (2113)
A corm rot of gladiolus caused by a Penicillium. Phytopath. 18: 151. (Abst.).
——— and ———. 1928. (2114)
A rot of gladiolus corms caused by Penicillium gladioli L. McC. and Thom. Jour. Agr. Res. 36: 217-224.
McDonald, J. 1929. (2115)
Notes on diseases of Coffee in Kenya. Kenya Dept. Agr. Bull. 7 H, 1-3.

McGeorge, W. T. 1923. (2116)
The chlorosis of pineapple plants grown on manganiferous soils. Soil Sci. 16: 269-274.
————. 1924. (2117)
Soil acidity: Its relation to root rot. Hawaiian Planters' Rec. 28: 321-324.
————. 1925. (2118)
The influence of aluminum, manganese and iron salts upon the growth of sugar cane, and their relation to the infertility of acid Island soils. Hawaiian Sugar Planters' Assoc. Exp. Sta., Agr. and Chem. Ser. Bull. 49, 1-95.
————. 1926. (2119)
A review of soil investigations pertaining to growth failure of sugar cane. Hawaiian Planters' Rec. 30: 259-266.
————. 1926. (2120)
Pahala blight and a comparison with other forms of sugar cane chlorosis. Hawaiian Planters' Rec. 30: 293-328.
————. 1926. (2121)
Growth failure on acid soils. Planter and Sugar Mfg. 77: 408-409.
————. 1930. (2122)
Pahala blight. II. Hawaiian Planters' Rec. 34: 17-23.
McGinty, R. A. and R. C. Thompson. 1926. (2123)
Preliminary notes on tip-burn of lettuce. Proc. Amer. Soc. Hort. Sci. 27: 341-346.
McHargue, J. S. 1923. (2124)
Effect of different concentrations of manganese sulfate on the growth of plants in acid and neutral soils and the necessity of manganese as a plant nutrient. Jour. Agr. Res. 24: 781-794.
————. 1926. (2125)
Manganese and plant growth. Jour. Indus. and Engin. Chem. 18: 172-175.
McKay, M. B. 1921. (2126)
Blossom-end rot of tomatoes. Ore. Agr. Exp. Sta., Crop Pest and Hort. Rept., 1915-20 (3), 185-186.
McKenna. 1918. (2127)
The importance of soil ventilation. Agr. Jour. India 13: 148-151.
McKenney, R. E. B. 1910. (2128)
The Central American banana blight. Science 31: 750-751.
McKinney, H. H. 1922. (2129)
The Helminthosporium disease of wheat and the influence of soil temperature on seedling infection. Phytopath. 12: 28. (Abst.).
————. 1923. (2130)
Influence of soil temperature and moisture on infection of wheat seedlings by Helminthosporium sativum. Jour. Agr. Res. 26: 195-217.
————. 1925. (2131)
Foot-rot diseases of wheat in America. U. S. Dept. Agr., Dept. Bull. 1347, 1-40.
————. 1927. (2132)
Factors affecting certain properties of a mosaic virus. Jour. Agr. Res. 35: 1-12.
———— and R. J. Davis. 1925. (2133)
Preliminary environmental studies on the take-all disease of wheat caused by Ophiobolus graminis Sacc. Phytopath. 15: 494-495.
———— and ————. 1925. (2134)
Influence of soil temperature and moisture on infection of young wheat plants by Ophiobolus graminis. Jour. Agr. Res. 31: 827-840.
McLarty, H. R. 1928. (2135)
Some observations on physiological diseases in apple in British Columbia. Sci. Agr. 8: 636-650.
————. 1929. (2136)
Report of the Dominion Field Laboratory of Plant Pathology, Summerland, B. C. Canada Dept. Agr., Rept. of Dominion Botanist, 1928, 142-162.
McLean, F. T. and B. E. Gilbert. 1925. (2137)
Manganese as a cure for a chlorosis of spinach. Science 61: 636-637.
———— and ————. 1927. (2138)
The relative aluminum tolerance of certain crop plants. Soil Sci. 24: 163-175.
———— and ————. 1928. (2139)
Aluminum toxicity. Plant Physiol. 3: 293-302.
McMurran, S. M. 1914. (2140)
The anthracnose of the mango in Florida. U. S. Dept. Agr., Dept. Bull. 52, 1-15.

———. 1915. (2141)
Winterkilling, sunscald or sour sap of pecans. Amer. Nut Jour. 3: 82.
———. 1917. (2142)
Walnut blight in the eastern United States. U. S. Dept. Agr., Dept. Bull. 611, 1-7.
———. 1919. (2143)
Pecan rosette in relation to soil deficiencies. U. S. Dept. Agr., Dept. Bull. 756, 1-11.
———. 1919. (2144)
Pecan rosette in relation to soil deficiencies. Amer. Nut Jour. 10 (3): 38-39, 43.
——— and J. B. Demaree. 1920. (2145)
Diseases of southern pecans. U. S. Dept. Agr., Farmers' Bull. 1129, 1-22.
McMurtrey, J. E. 1929. (2146)
Nutritional deficiency studies on tobacco. Jour. Amer. Soc. Agron. 21: 142-149.
———. 1929. (2147)
The effect of boron deficiency on the growth of tobacco plants in aerated and unaerated solutions. Jour. Agr. Res. 28: 371-380.
McMurtrie, W. 1878. (2148)
On the conditions in nature which may influence or tend to the production of mildew and rot. U. S. Dept. Agr., Com. Rept., 1877, 81-89.
McRae, W. 1916. (2149)
Abnormal leaf-fall of Hevea rubber. Planters' Chron. 11: 459-465.
———. 1918. (2150)
Phytophthora Meadii n. sp. on Hevea brasiliensis. Mem. Dept. Agr. India, Bot. Ser. 9: 219-273.
———. 1926. (2151)
Report of the imperial mycologist. Sci. Rept. Agr. Res. Inst., Pusa, 1925-1926, 54-69.
———. 1928. (2152)
Report of the imperial mycologist. Sci. Rept. Agr. Res. Inst., Pusa, 1927-1928, 56-70.
———. 1930. (2153)
Report of the imperial mycologist. Sci. Rept. Agr. Res. Inst., Pusa, 1928-1929, 51-66.
Meacham, M. R. 1918. (2154)
Note upon the hydrogen-ion concentration necessary to inhibit the growth of four wood-destroying fungi. Science 48: 499-500.
Mehta, K. C. 1923. (2155)
Observations and experiments on cereal rusts in the neighborhood of Cambridge, with special reference to their annual recurrence. Trans. Brit. Mycol. Soc. 8: 142-176.
Meinecke, E. P. 1925. (2156)
An effect of drought in the forests of the Sierra Nevada. Phytopath. 15: 549-553.
Meisner. 1927. (2157)
Fusskrankheiten bei Getreide. Illus. Landw. Zeit. 47: 445.
Melchers, L. E. et al. 1926. (2158)
Diseases of plants. Kan. Agr. Exp. Sta. Bien. Rept., 1924-1926, 65-71.
——— et al. 1928. (2159)
Diseases of plants. Kan. Agr. Exp. Sta. Bien. Rept., 1926-1928, 60-67.
——— and M. C. Sewell. 1926. (2160)
The effect of tillage, fertilizers and rotations on the spread of wheat foot-rot. Phytopath. 16: 81. (Abst.).
Melhus, I. E. 1911. (2161)
Experiments on spore germination and infection in certain species of Oomycetes. Wis. Agr. Exp. Sta. Res. Bull. 15, 25-91.
———. 1912. (2162)
The factors governing germination and infection with Phytophthora infestans. Phytopath. 2: 46. (Abst.).
———. 1914. (2163)
Powdery scab (Spongospora subterranea) of potatoes. U. S. Dept. Agr., Dept. Bull. 82, 1-16.
———. 1915. (2164)
Germination and infection with the fungus of the late blight of potato (Phytophthora infestans.). Wis. Agr. Exp. Sta. Res. Bull. 37, 1-64.
———. 1915. (2165)
Hibernation of Phytophthora infestans in the Irish potato. Jour. Agr. Res. 5: 71-102.
———. 1921. (2166)
Botany and plant pathology. Iowa Agr. Exp. Sta. Ann. Rept., 30-36.
———. 1924. (2167)
Basisporium dry rot of corn. Iowa Agr. Exp. Sta. Ann. Rept., 36-37.

——— and L. W. Durrell. 1919. (2168)
Studies on the crown rust of oats. Iowa Agr. Exp. Sta. Res. Bull. 49, 113-144.
———, ———, and R. S. Kirby. 1920. (2169)
Relation of the barberry to stem rust in Iowa. Iowa Agr. Exp. Sta. Res. Bull. 57, 283-325.
——— and ———. 1922. (2170)
Dry rot of corn. Iowa Agr. Exp. Sta. Circ. 78, 1-8.
——— and O. H. Elmer. 1927. (2171)
Raspberry diseases in Iowa. Iowa Agr. Exp. Sta. Circ. 105, 1-15.
——— and M. K. Patel. 1930. (2171a)
Study of Peronospora trifoliorum DeBary on species of Leguminosae. Proc. Iowa Acad. Sci. 36: 113-119.
———, J. Rosenbaum, and E. S. Schultz. 1916. (2172)
Spongospora subterranea and Phoma tuberosa on the Irish potato. Jour. Agr. Res. 7: 213-253.
———, F. H. Van Haltern, and D. E. Bliss. 1928. (2173)
A study of Sclerospora graminicola (Sacc.) Schroet. on Setaria viridis (L.) Beauv. and Zea mays L. Iowa Agr. Exp. Sta. Res. Bull. 111, 297-338.
Melin, E. 1924. (2175)
Ueber den Einfluss der Wasserstoffionenkonzentration auf die Virulenz der Wurzelpilze von Kiefer und Fichte. Bot. Not., 1924, 38-48.
Menchikovsky, F. 1927. (2176)
Observation concerning the influence of sodium salts in irrigation water on citrus trees. Yedeoth, Palestine, 7-8: 355-356.
Mengel, O. 1913. (2177)
Évolution du mildiou suivant les conditions de milieu. Compt. Rend. Acad. Sci. (Paris) 157: 292-294.
Mercuri, S. 1927. (2178)
Marciume radicale del carciofo. Boll. R. Staz. Pat. Veg. 7: 347-364.
Merkenschlager, F. 1921. (2180)
Die Chlorose der Lupine auf Kalkboden. Fuhling's Landw. Zeit. 70: 19-24.
———. 1929. (2181)
Zur Biologie der Kartoffel. II Mitteilung. Zur Pathologie der Blattrollkrankheit. Arb. Biol. Reichsanst. Land- u. Forstw. 17: 345-376.
Mertz, W. M. 1924. (2182)
Windburning of citrus trees. Calif. Dept. Agr. Mo. Bull. 13, 46-54.
———. 1924. (2183)
Control factors of windburning of citrus trees. Citrus Leaves 3 (2): 1-4, 17.
———. 1924. (2184)
Windburning of citrus. Calif. Citrogr. 9: 85, 101, 103-105.
Metcalf, H. 1906. (2185)
A preliminary report on the blast of rice, with notes on other rice diseases. S. C. Agr. Exp. Sta. Bull. 121, 1-43.
———. 1908. (2186)
Diseases of ornamental trees. U. S. Dept. Agr. Yrbk., 1907, 483-494.
———. 1918. (2187)
The problem of the imported plant disease as illustrated by the white pine blister rust. Brooklyn Bot. Gard. Mem. 1, 327-333.
Metzger, W. H. and G. Janssen. 1928. (2188)
A study of the causes of chlorosis in rice. Ark. Agr. Exp. Sta. Ann. Rept., Bull. 231, 31.
——— and ———. 1928. (2189)
The relation of sodium nitrate and certain other nitrogen carriers to the development of chlorosis in rice. Jour. Agr. Res. 37: 589-602.
Meurs, A. 1928. (2190)
Wortelrot, veroorzaakt door schmimmels uit de gesclachten Pythium Pringsheim en Aphanomyces DeBary. (English Summary). Thesis, Univ. Utrect. 95 pp.
Mevius, W. 1927. (2191)
Reaktion des Bodens und Pflanzenwachstum. Naturw. u. Landw. 11: 1-153.
Mez, C. 1908. (2192)
Der Hausschwamm und die übrigen holzzarstörenden Pilze der menschlichen Wohnungen. Dresden.
Miani, D. 1901. (2193)
Ueber die Einwirkung von Kupfer auf das Wachstum lebender Pflanzenzellen. Ber. Deutsch. Bot. Ges. 19: 461-464.

Milan, A. 1928. (2194)
Il grado di recettività per la "carie" delle varieta de Frumento (II Nota). Nuovo Giorn. Bot. Ital. n. s. 34: 1188-1199.
Milbraith, D. G. 1923. (2195)
Downy mildew on lettuce in California. Jour. Agr. Res. 23: 989-993.
Miles, H. W. and B. Thomas. 1925. (2196)
A preliminary study of the relationship between manuring and susceptibility to disease in potatoes. Jour. Agr. Sci. 15: 89-95.
Millard, W. A. 1923. (2197)
Common scab of potatoes, Part II. Ann. Appl. Biol. 10: 70-88.
Millen, F. H. 1917. (2198)
Disease control and forest management. Jour. Forestry 15: 974-977.
Miller, L. P. 1928. (2199)
Manganese deficiency in sand cultures. Amer. Fertilizer 68 (7): 21-22.
Miller, P. W. 1929. (2200)
Studies of fire blight of apple in Wisconsin Jour. Agr. Res. 39: 579-621.
Mills, J. W. 1902. (2201)
Citrus fruit culture. Calif. Agr. Exp. Sta. Bull. 138, 1-46.
Milovtzova, M. A. 1930. (2202)
Life-history and development of Taphridium umbelliferarum Lagerh. et Juel. (Preliminary communication). (Trans. title). Morbi Plantarum 19: 15-22.
Mirande, M. 1910. (2203)
Les effects du goudronnage des routes sur la végétation. Compt. Rend. Acad. Sci. (Paris) 151: 949-952.
Mirasol, J. J. 1920. (2204)
Aluminum as a factor in soil acidity. Soil Sci. 10: 153-217.
Mitchell, A. J. 1910. (2205)
Effects of low temperatures on citrus trees and fruits. U. S. Dept. Agr., Mo. Weather Rev. 38: 16-17.
Mitra, S. K. and L. N. Phukan. 1929. (2207)
Effects of hydrogen-ion concentrations on rice cultures. Agr. Jour. India 24: 109-116
Mix, A. J. 1916. (2208)
Sun-scald of fruit trees, a type of winter injury. N. Y. (Cornell) Agr. Exp. Sta. Bull 382, 233-284.
————. 1916. (2209)
Cork, drought spot, and related diseases of the apple. N. Y. (Geneva) Agr. Exp. Sta. Bull. 426, 473-520.
————. 1924. (2210)
Biological and cultural studies of Exoascus deformans. Phytopath. 14: 217-233.
————. 1925. (2211)
Biological and cultural studies of Exoascus mirabilis. Phytopath. 15: 214-222.
————. 1925. (2212)
The weather and peach leaf curl in eastern Kansas in 1924. Phytopath. 15: 244-245.
———— and D. L. Vaughn. 1924. (2213)
The range of toleration of hydrogen-ion concentration exhibited by Fusarium tracheiphilum in culture. Phytopath. 14: 63. (Abst.).
Miyake, K. 1916. (2214)
The toxic action of soluble aluminum salts upon the growth of the rice plant. Jour. Biol. Chem. 25: 23-28.
———— and M. Adachi. 1922. (2215)
Chemische Untersuchungen über die Widerstandsfähigkeit der Reisarten gegen die "Imochi-Krankheit". Jour. Biochem. (Tokyo) 1: 223-247.
Mizusawa, Y. 1923. (2216)
A bacterial rot disease of Saffrons. Ann. Phytopath. Soc. Japan 1: 1-12.
Möbius, M. A. J. 1907. (2217)
Die Erkältung der Pflanzen. Ber. Deutsch. Bot. Ges. 25: 65-70.
Mogendorff, N. 1930. (2218)
"Fern-leaf" of tomato. Phytopath. 20: 25-46.
Mohr, K. 1898. (2219)
Betrachtungen über die Ursachen der Chlorosebildung an grünen Blättern. Gartenwelt 2: 569-570.
Mokrzecki, S. A. 1903. (2220)
Über die innere Therapie der Pflanzen. Zeitschr. Pflanzenkr. 13: 257-265.

Molish, H. 1897. (2221)
Untersuchungen über das Erfrieren der Pflanzen. Jena.
————. 1911. (2222)
Über Einfluss des Tabakrauches auf die Pflanze. Sitzunsber. Akad. Wiss. Wein., Abt. 1, 120: 813-838.
Moller, A. 1904. (2223)
Karenzerscheinungen bei der Kiefer. Zeitschr. Forst- u. Jagdw. 36: 745-756.
Molz, E. 1907. (2224)
Untersuchungen über die im vergangenen Winter an den Reben aufgetretenen Frostschäden. Ber. Lehr- u. Forschungs., Wein. Obst- u. Gartenbau, Geisenheim, 313-314.
————. 1907 and 1908. (2225)
Untersuchungen über die Chlorose der Reben. Centbl. Bakt. 19: 461-480 and 20: 71-88, 126-149.
————. 1917. (2226)
Über die Züchtung widerstandsfähiger Sorten unserer Kulturpflanzen. Zeitschr. Pflanzensucht. 5: 121-244.
————. 1920. (2227)
Die Typhula-Fäule der Zuckerrüben auf den Azoren und ihre Bekämpfung. Zeitschr. Pflanzenkr. 30: 121-139.
————. 1922. (2228)
Ueber eine weitverbreitete Roggenerkrankung. Deut. Landw. Presse 49: 284.
Monicault, P. 1922. (2229)
L'ergot du blé. Jour. Agr. Prat. 86: 169.
Monteith, J. 1922. (2230)
Club root of cabbage affected by soil temperature and soil moisture. Wis. Agr. Exp. Sta. Bull. 339, 43.
————. 1924. (2231)
Relation of soil temperature and soil moisture to infection by Plasmodiophora brassicae. Phytopath. 14: 25. (Abst.).
————. 1924. (2232)
The relation of soil temperature and soil moisture to infection by Plasmodiophora brassicae. Jour. Agr. Res. 28: 549-561.
————. 1926. (2233)
Colletotrichum trifolii and Gloeosporium caulivorum on clover. Phytopath. 16: 71-72. (Abst.).
————. 1926. (2234)
Control of brown-patch in turf. Phytopath. 16: 76. (Abst.).
————. 1926. (2235)
The brown patch disease of turf; its nature and control. Bull Greens Sec., U. S. Golf Assoc. 6: 127-142.
————. 1928. (2236)
Clover anthracnose caused by Colletotrichum trifolii. U. S. Dept. Agr., Tech. Bull. 28, 1-26.
———— and A. S. Dahl. 1928. (2237)
A comparison of some strains of Rhizoctonia solani in culture. Jour Agr. Res. 36: 897-903.
Montemartini, L. 1909. (2238)
La ruggini dei cereali in rapporto colla concimazione. Riv. Patol. Veg. 4: 53-56.
Moore, E. S. 1924. (2239)
The physiology of Fusarium coeruleum. Ann. Bot. 38: 137-161.
Moore, H. C. 1926. (2240)
Hollow heart of potatoes. Mich. Agr. Exp. Sta. Quart. Bull. 8: 114-118.
————. 1926. (2241)
Hollow heart in potatoes. Mich. Acad. Sci. 6: 289-294.
————. 1927. (2242)
Hollow heart of potatoes. Mich. Agr. Exp. Sta. Quart. Bull. 9 (4): 137-139.
———— and E. J. Wheeler. 1928. (2243)
Further studies of potato hollow heart. Mich. Agr. Exp. Sta. Quart. Bull. 11 (1): 20-24.
Moore, J. G. 1918. (2244)
Winter injury to fruits in Wisconsin in 1918. Proc. Amer. Soc. Hort. Sci. 15: 31-32.
Moore, M. H. 1930. (2245)
The incidence and control of apple scab and apple mildew at East Malling. Jour. Pomol. and Hort. Sci. 8: 229-247.

Moranon, J. M. 1924. (2246)
A biochemical study of resistance to mildew in Oenothera. Philippine Jour. Sci. 24: 369-441.
Moreau, F. 1913. (2247)
Sur l'action des différentes radiations lumineuses sur la formation des conidies de Botrytis cinerea Pers. Bull. Soc. Bot. France 60: 80-82.
————. 1920. (2248)
A propos du nouveau genre Kunkelia Arthur. Bull. Soc. Mycol. France 36: 101-103.
Moreau, L. and E. Vinet. 1914. (2249)
Influence du milieu, et des agents atmosphériques sur le développement du mildiou. Prog. Agr. et Vitic 62: 225-235.
Moreillon, M. 1926. (2250)
Foudroiement des arbres. Bull. Trimest. Soc. Forest. Franche-Comté 16: 334-340.
Morel, J. 1892. (2251)
Action de l'acide borique sur la germination. Compt. Rend. Acad. Sci. (Paris) 114: 131-133.
Moreland, W. H. 1906. (2252)
The relation of the weather to rust on cereals. Mem. Dept. Agr. India, Bot. Ser. 1 (2): 53-58.
Morgan, M. F. 1929. (2253)
Tobacco as an indicator plant in studying nutritional deficiencies of soils under greenhouse conditions. Jour. Amer. Soc. Agron. 21: 130-136.
Morgenroth, E. 1929. (2254)
Beziehungen zwischen Aciditätsbestimmungen und Pflanzenwachstum. Wiss. Arch. Landw. Pflanzenbau, Abt. A, 1: 434-470.
Morris, H. E. and D. B. Swingle. 1927. (2255)
Injury to growing crops caused by the application of arsenical compounds to the soil. Jour. Agr. Res. 34: 59-78.
Morris, O. M. 1915. (2256)
Apple scab—Where most prevalent. Better Fruit 9 (8): 31-35.
————. 1914 and 1920. (2257)
Winter injury of fruit trees. Proc. Wash. State Hort. Assoc. 11: 38-42 and 16: 15-21.
————. 1923. (2258)
Apple rosette. Wash. Agr. Exp. Sta. Bull. 177, 1-30.
Morse, F. W. 1919. (2259)
A fertilizer experiment with asparagus. Mass. Agr. Exp. Sta. Bull. 194, 231-257.
————. 1921. (2260)
Thirty years experience with sulfate of ammonia. Mass. Agr. Exp. Sta. Bull. 204, 83-98.
Morse, W. J. 1909. (2261)
Notes on plant diseases in 1908. Me. Agr. Exp. Sta. Bull. 164, 1-28.
————. 1909. (2262)
Two recent epidemics of late blight and rot of potatoes in Aroostook County. Me. Agr. Exp. Sta. Bull. 169, 163-184.
————. 1917. (2263)
Studies upon the blackleg disease of the potato, with special reference to the relationship of the causal organisms. Jour. Agr. Res. 8: 79-126.
————. 1920. (2264)
Some observations upon the effect of borax in fertilizers. Me. Agr. Exp. Sta. Bull. 288, 89-120.
Morstatt, H. 1923. (2265)
Einführung in die Pflanzenpathologie. Sammlung Borntraeger. 1: 1-159.
————. 1914-1930. (2266)
Bibliographie der Pflanzenschutzliteratur. Biol. Reichs. Land- u. Forstw. Berlin.
Mottet, S. 1893. (2267)
Des effets de la fumée sur les végétaux. Rev. Hort. 65: 162-163.
Mounce, I. 1929. (2268)
Studies in forest pathology. II. The biology of Fomes pinicola (Sw.) Cooke. Canada Dept. Agr. Bull. 111, 1-75.
Mouravieff, V. P. 1928. (2269)
Interdependence of epidemics of stinking smut and meteorological factors. (Trans. title). Mag. Seed Selection Direction Sugar Trust 3 (11): 73-94.
Mukerjee, J. N. 1924. (2270)
Carbon dioxide in soil gases. Agr. Jour. India 19: 146-154.

Müller, E. 1928. (2271)
Die Schutzwirkung der Kalidüngung gegen Krankheiten bei Getreide und Kartoffeln. Ernähr. Pflanze 24: 121-123.

Müller, F. 1904. (2272)
Die Beschädigungen der Blätter und Früchte unserer Obstbäume bei der Bespritzung mit richtig hergestellen Kupferbruhen. Zeitschr. Pflanzenkr. 14: 288-289. (Abst.).

Müller, H. C. et al. 1911. (2273)
Schäden durch Rauch und Flugasche. Ber. Agr. Chem. Kontrollstation, Sachsen, 1910, 20-22.

———— and E. Molz. 1917. (2274)
Über das Auftreten des Gelbrostes (Puccinia glumarum) am Weizen in den Jahren 1914 und 1916. Fuhling's Landw. Zeit. 66: 42-55.

Müller, K. O. 1924. (2275)
Untersuchungen zur Entwicklungsgeschichte und Biologie von Hypochnus solani P. u. D. (Rhizoctonia solani K.). Arb. Biol. Reichsanst. Land- u. Forstw. 13: 197-262.

————. 1926. (2276)
Über die wirtschaftliche Bedeutung, die Symptome, und die Bekämpfung der Kraut—und Knollenfäule der Kartoffel. Mitt. Deut. Landw. Ges. 41: 567-571.

Müller-Thurgau, H. 1880. (2277)
Ueber das Gefrieren und Erfrieren der Pflanzen. Landw. Jahrb. 9: 133-189.

————. 1886. (2278)
Ueber das Gefrieren und Erfrieren der Pflanzen. Landw. Jahrb. 15: 453-610.

————. 1900. (2279)
Eigentümliche Frostschäden an Obstbäumen und Reben. Zeitschr. Pflanzenkr. 10: 335-340.

————. 1901. (2280)
Beobachtungen über Hagelschäden an Obstbäumen und Reben. Zeitschr. Pflanzenkr. 11: 247-248. (Abst.).

————. 1903. (2281)
Eigentümliche Frostschäden an Obstbäumen und Reben. Zeitschr. Pflanzenkr. 13: 272-273. (Abst.).

————. 1922. (2282)
Sonnenbrandschäden bei Kernobstrüchten. Landw. Jahrb. Schweiz. 36: 814-815.

————. 1922. (2283)
Weitere Beobachtungen über die Blattbräune der Kirschbäume. Landw. Jahrb. Schweiz. 36: 822-824.

Mulvania, M. 1926. (2284)
Studies on the nature of the virus of tobacco mosaic. Phytopath. 16: 853-871.

Münch, E. 1909. (2285)
Untersuchungen über Immunität und Krankheitsempfänglichkeit der Holzpflanzen. Naturw. Zeitschr. Forst- u. Landw. 7: 54-75, 87-114, 129-160.

————. 1913. (2286)
Hitzeschäden an Waldpflanzen. Naturw. Zeitschr. Forst- u. Landw. 11: 557-562.

————. 1914. (2287)
Nochmals Hitzeschäden an Waldpflanzen. Naturw. Zeitschr. Forst- u. Landw. 12: 169-188.

————. 1928. (2288)
Frostgefährung wintergruner Gehölze. Mitt. Deut. Dendrol. Ges. 40: 175-184.

Muncie, J. H. 1917. (2289)
Experiments on the control of bean anthracnose and bean blight. Mich. Agr. Exp. Sta. Tech. Bull. 38, 1-50.

———— and M. K. Patel. 1930. (2290)
Studies upon a bacteriophage specific for Pseudomonas tumefaciens. Phytopath. 20: 289-305.

Munerati, O. 1912. (2291)
Sulla recettività del frumento per la carie in rapporto al tempo di semina. Accad. Lincei, Rend. Cl. Sci. Fis. Mat. e Nat. 21: 875-878.

————. 1922. (2292)
Osservazioni sulla recettività del frumento per la carie. Accad. Lincie, Rend. Cl. Sci Fis. Mat. e Nat. 31 (1): 125-129.

————. 1923. (2293)
Le basse temperature al momento della germinazione fanno sfuggire il grano all'attacco della carie? Accad. Lincei, Rend. Cl. Sci. Fis. Mat. e Nat. 32: 285-289.

Munger, T. T. 1916. (2294)
Parch blight on Douglas fir in the Pacific Northwest. Plant World 19: 46-47.
Munkelt, W. 1927. (2295)
Versuche zur Stoffwechselpathologie der Kulturpflanzen. Angew. Bot. 9: 35-65, 82-87.
Munn, M. T. 1912. (2296)
Lime-sulfur vs. bordeaux mixture as a spray for potatoes. N. Y. (Geneva) Agr. Exp. Sta. Bull. 352, 1-7.
————. 1915. (2297)
Lime-sulfur vs. bordeaux mixture as a spray for potatoes. III. N. Y. (Geneva) Agr. Exp. Sta. Bull. 397, 95-105.
————. 1915. (2298)
Lightning injury to onions. Phytopath. 5: 197.
————. 1917. (2299)
Neck-rot disease of onions. N. Y. (Geneva) Agr. Exp. Sta. Bull. 437, 363-455.
Munson, W. M. 1903. (2300)
Experiments in orchard culture. Me. Agr. Exp. Sta. Bull. 89, 1-24.
Münter, F. 1927. (2301)
Zur Bodensäure. Deutsche Landw. Presse 54: 15-16.
Murphy, H. F. 1929. (2302)
Some effects of crude petroleum on nitrate production and growth. Soil Sci. 27: 117-120.
Murphy, P. A. 1921. (2303)
Investigation of potato diseases. Canada Exp. Farms Bull. 44, 1-86.
————. 1922. (2304)
The bionomics of the conidia of Phytophthora infestans (Mont.) DeBary. Proc. Roy Dublin Soc. 16: 442-466.
———— and R. McKay. 1926. (2305)
The downy mildew of onions (Peronospora schleideni), with particular reference to the hibernation of the parasite. Proc. Roy. Dublin Soc. 18: 237-261.
———— and E. J. Wortley. 1920. (2305a)
Relation of climate to the development and control of leaf roll of potato. Phytopath. 10: 407-414.
Murwin, H. F. 1929. (2306)
The effects of magnesia, sulphur and chlorine on the growth and quality of tobacco. Conn. Agr. Exp. Sta. Bull. 299, 198-203.
Muth, F. 1906. (2307)
Über die Beschädigung der Rebenblätter durch Kupferspritzmittel. Zeitschr. Pflanzenkr. 16: 289-290. (Abst.).
————. 1928. (2308)
Die Melanose der Amerikanerreben. Mitt. Deut. Landw. Ges. 43: 1063-1066.
Nabokich, A. J. 1909. (2309)
Temporäre Anäerobiose höherer Pflanzen. Landw. Jahrb. 38: 51-194.
Nakamura, M. 1903. (2310)
Can boric acid in high dilution exert a stimulant action on plants? Bull. Col. Agr. (Tokyo) 5: 509-512.
Nakamura, H. 1928. (2311)
On Septoria callistephi Gloyer parasitic on Callistephus chinensis. (Japanese). Jour. Microbiol. Soc. Japan 22: 12.
Nakata, K. 1930. (2312)
Comparative studies of Bact. sesami with Bact. solanacearum and Bact. sesamicola. Ann. Phytopath. Soc. Japan 2: 229-243.
Nakatomi, S. 1927. (2313)
On the variability and inheritance of the resistance of rice plants against the rice blast disease. (Japanese). Jap. Jour. Genetics 4: 31-38.
Naoumoff, N. A. 1925. (2314)
Contribution to the study of clubroot of cabbage. (Trans. title). Morbi Plantarum, Leningrad, 14 (2-3): 1-24.
Nash, G. V. 1916 and 1918.
Injury to evergreens. Jour. N. Y. Bot. Gard. 17: 179-185 and 19: 48-50, 159-164.
Näslund, C. and K. G. Dernby. 1923. (2316)
Untersuchungen über einige physiologische Eigenschaften der Strahlenpilze. Biochem. Zeitschr. 137: 497-564.

Naumann, A. 1911. (2317)
Einige Krankheiten gartnerischer Kulturgewächse und eigenartige Frostschädigungen an Apfelfrüchten. Jahresbr. Ver. Angew. Bot. 9: 198-217.
Naumov, N. A. 1916 and 1917. (2318)
Intoxicating bread. (Russian). Mik. i. Fitopat. 12: 1-216 and Rev. in Phytopath. 7: 384-386.
Nazari, V. 1910. (2319)
Azione di alcune ossidisi artificiali e di diversi composti metallic sulla germinazione e sull'accrescimento della piante. Le Staz. Sper. Agr. Italiane 43: 667-686.
Neal, D. C. 1927. (2320)
Cotton wilt: A pathological and physiological investigation. Ann. Mo. Bot. Gard. 14: 359-420.
————. 1928. (2321)
Cotton wilt: A pathological and physiological investigation. Miss. Agr. Exp. Sta. Tech. Bull. 16, 1-51.
Neger, F. W. 1915. (2322)
Rauchwirkung, Spätefrost und Frosttrocknis und ihre Diagnostik. Thar. Forstl. Jahrb. 66: 195-212.
————. 1916. (2323)
Ueber eine durch Fruhfrost an Nectria cucurbitula und Dermatea cucrita (Korst.) verursachte gipfeldürre der Fichte. Naturw. Zeitschr. Forst. u. Landw. 14: 121-127.
————. 1919. (2324)
Ein neues, untrügliches Merkmal für Rauchschäden bei Laubholzern. Angew. Bot. 1: 129-138.
————. 1924. (2325)
Die Krankheiten unserer Waldbaume. Stuttgart.
Negrier, A. 1921. (2326)
Faille des vignes gelées. Rev. Vitic. 54: 315-316.
Neilson, J. A. 1918. (2327)
Winter injury among fruit trees. Ont. Fruit Growers' Assoc. Ann. Rept. 50, 41-48.
Neller, J. R. and W. J. Morse. 1921. (2328)
Effects upon the growth of potatoes, corn and beans resulting from the addition of borax to the fertilizer used. Soil Sci. 12: 79-131.
Nelson, A. 1893. (2329)
The winter-killing of trees and shrubs. Wyo. Agr. Exp. Sta. Bull. 15, 213-222.
Nelson, R. 1926. (2330)
Storage and transportation diseases of vegetables due to suboxidation. Mich. Agr. Exp. Sta. Tech. Bull. 81, 1-38.
Neubauer, H. 1927. (2331)
Düngung und Rostbefall. Sächs. Landw. Zeit. 75: 526-527.
Newcombe, F. C. and H. A. Lee. 1927. (2332)
The cause of sectional chlorosis of sugar cane. Hawaiian Planters' Rec. 31: 125-128.
Newhall, A. G. 1925. (2333)
The tip burn of head lettuce. Market Growers' Jour. 36: 358-359.
————. 1928. (2334)
The relation of humidity and ventilation to the leaf mold disease of tomatoes. Ohio Agr. Exp. Sta. Bimo. Bull. 13 (3), 119-122.
————. 1930. (2335)
Control of root-knot nematode in greenhouses. Ohio Agr. Exp. Sta. Bull. 451, 1-60.
———— and J. D. Wilson. 1929. (2336)
A preliminary report on forced-air ventilation for the control of Cladosporium leaf mold of greenhouse tomatoes. Phytopath. 19: 83. (Abst.).
———— and ————. 1929. (2337)
Humidity and control of leaf diseases in greenhouses. Ohio Agr. Exp. Sta. Bull. 431, 64-65.
Newman, L. H. 1922. (2338)
Smut experiments. Canada Exp. Farms, Cereal Div. Rept. 7.
Nicolas, G. 1926. (2339)
Les rouilles du Blé a Monlon (Haute-Garonne) en 1924 et 1925. Rev. Path. Vég. et Ent. Agr. 13: 75-82.
Niggemeyer, H. 1915. (2340)
Die Beschädigung der Vegetation durch Rauch, mit besonderer Berücksichtigung des rheinisch—westfälischen Industriegebiets. Diss. Münster.

Nightingale, G. T. et al. 1930. (2341)
Some effects of potassium deficiency on the histological structure and nitrogenous and carbohydrate constituents of plants. N. J. Agr. Exp. Sta. Bull. 499, 1-36.
Nilsson-Ehle, H. 1912. (2342)
Berattelse öfver förädlingsarbetena med hösthvete vid Svalöf. Sver. Utsädesf. Tidsskr. 22: 307-334.
Nilsson-Leissner, G. 1929. (2343)
Death from low temperature and resistance of plants to cold. Quart. Rev. Biol. 4: 113-117.
Nisikado, Y. 1923. (2344)
Effect of temperature on the growth of Helminthosporium oryzae (Br. D. Haan). Ann. Phytopath. Soc. Japan 1: 20-30.
————. 1923. (2345)
Ueber die durch Physalospora und Coniothyrium verursachten Krankheiten der Weintraube in Japan. Ber. Ohara Inst. Landw. Forsch. 2: 273-289.
————. 1927. (2346)
Studies on the rice blast disease. Jap. Jour. Bot. 3: 239-244.
————. 1928. (2347)
Determination of hydrogen-ion concentration and its application to the studies of plant disease. (Japanese). Biol. Absts. 2: 407.
————. 1929. (2348)
Studies on the Helminthosporium diseases of Gramineae in Japan. Ber. Ohara Inst. Landw. Forsch. 4: 111-126.
———— and C. Miyake. 1920. (2349)
Treatment of the rice seeds for Helminthosporiose I. Hot water treatment. Ber. Ohara Inst. Landw. Forsch. 1: 543-555.
———— and ————. 1922. (2350)
Studies on the Helminthosporiose of the rice plant. Ber. Ohara Inst. Landw. Forsch. 2: 133-194.
———— and ————. 1926. (2351)
Studies on the Helminthosporium disease of maize. Jap. Jour. Bot. 3: 35. (Abst.).
———— and ————. 1926. (2352)
Studies on two Helminthosporium diseases of maize, caused by Helminthosporium turcicum Passerini and Ophiobolus heterostrophus Drechsler (Helm. maydis Nisikado et Miyake) I to VIII. Ber. Ohara Inst. Landw. Forsch. 3: 221-266.
Noack, F. 1905. (2354)
Über Frostblasen und ihre Enstehung. Zeitschr. Pflanzenkr. 15: 29-44.
Noack, K., O. Wehmer, and H. Griessmeyer. 1929. (2355)
Untersuchungen über die Rauchgasschäden der Vegetation. Zeitschr. Angew. Chemie 42: 123-126.
Nobbe, F., P. Baessler, and H. Will. 1884. (2356)
Untersuchung über die Giftwirkung des Arsen, Blei und Zink im pflanzlichen Organismus. Landw. Vers. Sta. 30: 381-423.
Noble, R. J. 1923. (2357)
Studies on Urocystis tritici Koern., the organism causing flag smut of wheat. Phytopath. 13: 127-139.
————. 1924. (2358)
Studies on the parasitism of Urocystis tritici Koern., the organism causing the flag smut of wheat. Jour. Agr. Res. 27: 451-489.
————. 1926. (2359)
Downy mildew of wheat. Agr. Gaz. N. S. Wales 37: 204-208.
————. 1929. (2360)
Some observations on the relationship of soil conditions to the development of disease in plants. Rept. Aust. Assoc. Adv. Sci., 1928, 574-580.
Nojima, T. 1930. (2361)
Studies on two different species of Pestalozzia parasitic on the leaves of Diospyros kaki L. Jap. Jour. Bot. 5: 16-17. (Abst.).
Nolen, R. E. 1926. (2362)
Pecan scab. Fla. Agr. Exp. Sta. Ann. Rept., 70-71.
————. 1926. (2363)
Pecan scab. Fla. Agr. Exp. Sta. Bull. 181, 251-276.
Nolte, O. 1923. (2364)
Beobachtungen zur sog. "Bodensäurekrankheit". Mitt. Deut. Landw. Ges. 38: 369-370.

Norman, A. G. 1930. (2365)
The biological decomposition of plant materials. III. Physiological studies on some cellulose-decomposing fungi. Ann. Appl. Biol. 17: 575-613.
North, D. S. 1929. (2366)
The bacterial-vascular diseases of sugar-cane. Facts about Sugar 24: 880-881.
Norton, J. B. S. 1911. (2367)
Water core of apple. Phytopath. 1: 126-128.
————. 1916. (2368)
Internal action of chemicals on resistance of tomatoes to leaf diseases. Md. Agr. Exp. Sta. Bull. 192, 17-30.
Novopokrovsky, I. V. and F. D. Skaskin. 1925. (2369)
Effect of temperature on the germination of the chlamydospores of cereal smuts (genus Ustilago) (Trans. title). Pamphlet of the North Caucasus Regional Land Administration Rostoff-on-Don. 1-28.
Nowell, W. et al. 1924. (2370)
The influence of soil conditions on plant diseases. Rept. Imperial Mycol. Conf., London, 1: 16-17.
Noyes, H. A. 1914. (2371)
The effect on plant growth of saturating a soil with carbon dioxide. Science 40: 792.
———— and J. H. Weghorst. 1920. (2372)
Residual effects of carbon dioxide gas additions to soils on roots of Lactuca sativa. Bot. Gaz. 69: 332-336.
Oberholser, E. L., A. J. Wickler, and H. E. Jacob. 1923. (2373)
Factors influencing the development of internal browning of the Yellow Newton apple. Calif. Agr. Exp. Sta. Bull. 370, 1-40.
O'Brien, A. A. 1902. (2374)
Notes on the comparative resistance to high temperatures of the spores and mycelium of certain fungi. Bull. Torrey Bot. Club 29: 170-172.
Ocfemia, G. O. 1923. (2375)
Helminthosporium disease of rice. Phytopath. 13: 53. (Abst.).
————. 1924. (2376)
The Helminthosporium disease of rice occurring in the southern United States and in the Philippines. Amer. Jour. Bot. 11: 385-405.
————. 1924. (2377)
The relation of soil temperature to germination of certain Philippine upland and lowland varieties of rice and infection by the Helminthosporium disease. Amer. Jour. Bot. 11: 437-460.
————. 1925. (2378)
The occurrence of white rust of crucifers and its associated downy mildew in the Philippines. Philippine Agr. 14: 289-296.
———— and E. F. Roldan. 1927. (2379)
Phytophthora blight of citrus. Amer. Jour. Bot. 14: 1-15.
O'Gara, P. J. 1913. (2380)
Studies on the water core of apple. Phytopath. 3: 121-128.
————. 1916. (2381)
A bacterial disease of western wheat-grass, Agropyron smithii. Phytopath. 6: 341-350.
————. 1918. (2382)
The white-spot disease of alfalfa. Science 48: 299-301.
Ogilvie, L. 1928. (2383)
Report of the plant pathologist for the year 1927. Dept. Agr. Bermuda Ann. Rept., 1927, 26-37.
————. 1928. (2384)
"Black tip", a finger-tip disease of the Chinese banana in Bermuda. Phytopath. 18: 531-538.
————. 1930. (2385)
Observations on the disease of market-garden crops in the Vale of Evesham. Ann. Rept. Agr. and Hort. Res. Sta., Long Ashton, Bristol, 1929, 149-154.
Oliver, F. W. 1891. (2386)
Upon the effects of urban fog upon cultivated plants. Agr. Sci. 5: 133-135. (Abst.).
————. 1893. (2387)
Ueber die Wirkungen des Stadtnebels auf kultivirte Pflanzen. Fortsch. Gebeit. Agr. Phys. 16: 496-497. (Abst.).

——— et al. 1894. (2388)
On the effects of urban fog upon cultivated plants. Jour. Roy. Hort. Soc., London, 16: 1-59.
Olsen, C. 1923. (2389)
Studies on the hydrogen ion concentration of the soil and its significance to the vegetation, especially to the natural distribution of plants. Compt. Rend. Lab., Carlsberg, 15: 1-166.
Opitz. 1920. (2390)
Fusariumbefall und auswinterung verschiedener Winterweizensorten. Mitt. Deut. Landw. Ges. 35: 488-489.
Orr, H. B. 1907. (2391)
Experiments with tomato blight. N. W. Horticulturist 20: 3-4.
Orton, C. R. 1916. (2392)
Meteorology and late blight of potatoes. Phytopath. 6: 107. (Abst.).
——— and J. F. Adams. 1915. (2393)
Collar-blight and related forms of fire-blight. Pa. Agr. Exp. Sta. Bull. 136, 1-23.
Orton, W. A. 1910. (2394)
Cotton wilt. U. S. Dept. Agr., Farmers' Bull. 333, 1-24.
———. 1911. (2395)
The development of disease resistant varieties of plants. Intern. Conf. Génétique (Paris) 4: 247-265.
———. 1913. (2396)
Environmental influences in the pathology of Solanum tuberosum. Jour. Wash. Acad. Sci. 3: 180-190.
———. 1914. (2397)
The biological basis of international phytopathology. Phytopath. 4: 11-19.
———. 1926. (2398)
Botanical problems of American tropical agriculture. Bull. Torrey Bot. Club 53: 67-75.
Oskamp, J. 1918. (2399)
Winter injury of fruit trees. Ind. Agr. Exp. Sta. Circ. 87, 1-11.
———. 1918. (2400)
Winter injury in Indiana. Proc. Amer. Soc. Hort. Sci. 15: 25-30.
———. 1926. (2401)
Apple scald. Proc. N. Y. State Hort. Assoc., 191-196.
Oskierski, H. U. 1927. (2402)
Untersuchungen über die Beziehungen zwischen Bodenreaktion und Pflanzenwachstum. Bot. Arch. 20: 22-42.
Osner, G. A. 1916. (2403)
Leaf smut of timothy. N. Y. (Cornell) Agr. Exp. Sta. Bull. 381, 291-332.
———. 1918. (2404)
Stemphylium leafspot of cucumbers. Jour. Agr. Res. 13: 295-306.
Ost, H. 1896. (2405)
Untersuchung von Rauchschäden. Chem. Zeit. 20: 165-171.
Osterhout, W. J. V. 1908. (2406)
On the effects of certain poisonous gases on plants. Univ. Calif. Publ. in Bot. 3: 339-340.
Osterwalder, A. 1926. (2407)
Die Fleckenbildung beim Jonathan Apfel (Jonathan spot). Zeitschr. Pflanzenkr. 36: 264-269.
———. 1928. (2408)
Von der Gelbsucht der Rebe. Schweiz. Zeitschr. Obst- u. Weinbau 37: 105-113.
———. 1929. (2409)
Winterfrostschäden an Reben und Obstbäumen in der mittleren Zürichseegegend. Schweiz. Zeitschr. Obst- u. Weinbau 38: 281-298.
Otto, R. 1904. (2410)
Über durch kochsalzhaltiges Abwasser verursachte Pflanzen-schädigungen. Zeitschr. Pflanzenkr. 14: 136-140, 262-263.
Owen, O. 1929. (2411)
The occurrence of chlorates in a tomato soil. Jour. Pomol. and Hort. Sci. 7: 270-275.
Owens, C. E. 1928. (2412)
Principles of plant pathology. New York.
Owens, J. S. 1925. (2413)
Pollution of the atmosphere by smoke. Gardeners' Chron. 77: 230.

Paasch, E. 1930. (2414)
Ursache und Bekämpfung der Herz- und Trochenfäule. Centralbl. f. Zuckerind. 38: 403-405.
Paddock, W. 1900. (2415)
The New York apple-tree canker. N. Y. (Geneva) Agr. Exp. Sta. Bull. 185, 207-213.
————. 1902. (2416)
Plant diseases of 1901. Colo. Agr. Exp. Sta. Bull. 69, 1-23.
————. 1904. (2417)
Large potato vines and no potatoes. Colo. Agr. Exp. Sta. Bull. 92, 1-8.
————. 1918. (2418)
Winter injury in Ohio. Proc. Amer. Soc. Hort. Sci. 15: 30-31.
———— and O. B. Whipple. 1910. (2419)
Fruit growing in arid regions. 395 pp. New York.
Paine, S. G. 1917. (2420)
Studies in bacteriosis. I. "Blackleg" of the potato. Jour. Agr. Sci. 8: 480-494.
———— and W. F. Bewley. 1919. (2421)
Studies in bacteriosis. IV. "Stripe" disease of tomato. Ann. Appl. Biol. 6: 183-202.
———— and J. M. Branfoot. 1924. (2422)
Studies in bacteriosis. XI. A bacterial disease of lettuce. Ann. Appl. Biol. 11: 312-317.
———— and H. Chaudhuri. 1923. (2423)
The blackleg disease of the potato. On the relationship of Bacillus atrosepticus and Bacillus solanisaprus. Phytopath. 13: 359-361.
———— and M. S. Lacey. 1923. (2424)
Studies in bacteriosis IX. "Streak disease of broad beans." Ann. Appl. Biol. 10: 194-203.
———— and H. Stansfield. 1919. (2424a)
A bacterial leaf-spot of Protea cynaroides, exhibiting a host reaction of possibly bacteriolytic nature. Ann. Appl. Biol. 6: 27-39.
Palmer, W. B. 1921. (2425)
Pecan rosette. Proc. Ann. Conv. Nat'l Nut Growers' Assoc. 20: 72-78.
Palo, M. A. 1928. (2426)
A Fusarium causing bulb rot of onion in the Philippines. Philippine Agr. 17: 301-316.
Pammel, L. H. 1890. (2427)
Cotton root-rot. Texas Agr. Exp. Sta. Bull. 7, 61-92.
————. 1904. (2428)
Some unusual fungus diseases in Iowa during the summer of 1903. Proc. Soc. Prom. Agr. Sci. 25: 144-156.
————. 1906. (2429)
Some phytopathological problems. Proc. Soc. Prom. Agr. Sci. 27: 76-81.
————. 1914. (2430)
Recent literature on fungus diseases of plants. Trans. Iowa Hort. Soc. 49: 222-241.
————. 1915. (2431)
Report on fungus disease of plants for 1914. Iowa Weather and Crop Service Report, 1914, 64-69.
————. 1917. (2432)
Fungus diseases of plants for 1916. Iowa Agr. Yrbk. 17: 574-578.
————. 1921. (2433)
Corn ear mold. Iowa Agr. Exp. Sta. Ann. Rept., 31-32.
————. 1928. (2434)
Some notes on frost injury to plants in Iowa in 1928. Rept. Iowa State Hort. Soc. 53: 39-41.
———— and C. M. King. 1909. (2435)
Notes on factors in fungus diseases of plants with records of occurrences of plant diseases at Ames for a period of 25 years. Proc. Iowa Acad. Sci. 16: 41-97.
Pantanelli, E. 1914. (2436)
Osservazione su la recettività della quercia per l'oidio. Bull. Orto Bot. R., Univ. Napoli, 4: 309-348.
————. 1918. (2437)
Su la resistenza delle piante al freddo. Atti. R. Accad. Lincei, Rend. Cl. Sci. Fis. Mat. e Nat. 27: 126-130, 148-153.
————. 1920. (2438)
Contruibuti alla biologia della Peronospora della vite. Riv. Patol. Veg. 10: 51-72.

———. 1921. (2439)
Sui rapporti fra nutrizione e recettività per la ruggine. Riv. Patol. Veg. 11: 36-64.
———. 1921. (2440)
Contributions à la biologie du mildiou de la vigne. Prog. Agr. et Vitic. 42: 87-89, 111-115, 161-165.
———. 1921. (2441)
Selezione e creazione di piante resistenti alle malattie. Riv. Biol. 3: 172-198, 319-336.
Panton, J. H. 1888. (2442)
Rust (Puccinia graminis). Ont. Agr. Col. Bull. 36, 1-6.
———. 1896. (2443)
Pea blight. Ont. Agr. Col. and Exp. Farm Ann. Rept., 13-15.
Parfentjev, J. A. and F. Wilcoxon. 1929. (2444)
Laubbeschädigung durch Spritzungen mit Kalzium Arsenit und Kalzium Arsenat. Anzieg. Schädlingskunde 5: 107-112, 123-129.
Parish, S. B. 1910. (2445)
The effect of cement dust on citrus trees. Plant World 13: 288-291.
Parisot, M. 1926. (2446)
Le piétin du blé. Compt. Rend. Acad. Agr. France 12: 565-569.
Park, M. 1927. (2447)
Notes on some physiological conditions affecting the parasitism of Rhizoctonia solani Kühn. Ceylon Dept. Agr. Yrbk., 47-48.
———. 1927. (2448)
Some investigations into conditions affecting the parasitism of Rhizoctonia solani Kühn. Ann. Roy. Bot. Gard., Peradeniya, 10: 259-273.
———. 1928. (2449)
Investigation of root diseases of coconuts. Trop. Agriculturist 70: 402-407.
Parker, T. 1926. (2450)
The control of damping off. Gardeners' Chron. 79: 309.
Parr, A. E. 1912. (2451)
Drainage and soil aeration. Agr. Jour. India 7: 371-372.
Partrigeon, G. 1887. (2452)
Le mildiou. (Peronospora viticola). Paris.
Pasquali, A. 1928. (2453)
Osservazioni su binomia "frumento gelo". Gior. Agr. Domenica 38 (8): 74.
Patel, M. K. 1926. (2454)
Study of Peronospora trifoliorum DeBy. on species of Leguminosae. Phytopath. 16: 72. (Abst.).
Patten, A. J. and P. O'Meara. 1919. (2455)
The probable cause of injury reported from the use of calcium and magnesium arsenates. Mich. Agr. Exp. Sta. Quart. Bull. 2: 83-84.
Paul, W. R. C. 1929. (2456)
A comparative morphological and physiological study of a number of strains of Botrytis cinerea Pers. with special reference to their virulence. Trans. Brit. Mycol. Soc. 14: 118-135.
Peacock, R. W. 1911. (2457)
Rust in wheat and oats. Agr. Gaz. N. S. Wales 22: 1013-1016.
Pearson, A. W. 1892. (2458)
Constitutional health of plants. Garden and Forest 5: 118, 130-131.
Pée-Laby, E. 1926. (2459)
Coulure et maladies de la Vigne. Vie Agr. et Rurale 29: 188-189.
Peirce, G. J. 1909. (2460)
The possible effect of cement dust on plants. Science 30: 652-654.
———. 1910. (2461)
An effect of cement dust on orange trees. Plant World 13: 283-288.
Peligot, E. 1876. (2462)
De l'action que l'acide borique et les borates exercent sur les végétaux. Compt. Rend. Acad. Sci. (Paris) 83: 686-688.
Peltier, G. L. 1912. (2463)
A consideration of the physiology and life history of a parasitic Botrytis on pepper and lettuce. Mo. Bot. Gard. Rept. 23, 41-74.
———. 1916. (2464)
Parasitic Rhizoctonias in America. Ill. Agr. Exp. Sta. Bull. 189, 279-390.

———. 1916. (2465)
A serious disease of cultivated perennials caused by Sclerotium rolfsii. Ill. Agr. Exp Sta. Circ. 187, 1-3.
———. 1918. (2466)
Susceptibility and resistance to citrus-canker of the wild relatives, citrus fruits, and hybrids of the genus Citrus. Jour. Agr. Res. 14: 337-357.
———. 1919. (2467)
Carnation stem rot and its control. Ill. Agr. Exp. Sta. Bull. 223, 579-607.
———. 1920. (2468)
Influence of temperature and humidity on the growth of Pseudomonas citri and its host plants and on infection and development of the disease. Jour. Agr. Res. 20: 447-506.
———. 1922. (2469)
A study of the environmental conditions influencing the development of stem rust in the absence of an alternate host. I. Nebr. Agr. Exp. Sta. Res. Bull. 22, 1-15.
———. 1923. (2470)
A study of the environmental conditions influencing the development of stem rust in the absence of an alternate host. II. Nebr. Agr. Exp. Sta. Res. Bull. 25, 1-52.
———. 1925. (2471)
A study of the environmental conditions influencing the development of stem rust in the absence of an alternate host. III. Nebr. Agr. Exp. Sta. Res. Bull. 34, 1-12.
———. 1925. (2472)
A study of the environmental conditions influencing the development of stem rust in the absence of an alternate host. IV, V, VI. Nebr. Agr. Exp. Sta. Res. Bull. 35, 1-11.
——— and W. J. Frederich. 1922. (2473)
Weather and its relation to citrus scab epidemics in Alabama. Phytopath. 12: 57. (Abst.).
——— and ———. 1924. (2474)
Further studies on the relative susceptibility to citrus canker of different species and hybrids of the genus Citrus, including the wild relatives. Jour. Agr. Res. 28: 227-239.
——— and ———. 1924. (2475)
Relation of environmental factors to citrus scab caused by Cladosporium citri Massee. Jour. Agr. Res. 28: 241-254.
——— and ———. 1926. (2476)
Effects of weather on the world distribution and prevalence of citrus canker and citrus scab. Jour. Agr. Res. 32: 147-164.
———, C. J. King, and R. W. Samson. 1926. (2477)
Ozonium root rot. U. S. Dept. Agr., Dept. Bull. 1417, 1-25.
Penman, F. 1929. (2478)
"Glassy end" of potatoes. Jour. Dept. Agr. Victoria 27: 449-459.
Pennington, L. H. 1925. (2479)
Relation of weather conditions to the spread of white pine blister rust in the Pacific Northwest. Jour. Agr. Res. 30: 593-607.
Perkins, A. J. 1916. (2480)
Salts injurious to vegetation and their relationship to the irrigation of arid and semi-arid regions. Jour. Dept. Agr. So. Aust. 19: 1021-1043.
Perkins, W. R. and W. W. Welborne. 1928. (2481)
Effects of potash fertilizer on cotton wilt. Miss. Agr. Exp. Sta. Bull. 266, 15-16.
Perry, G. S. 1920. (2482)
Some effects of frost in northern Pennsylvania. Forest Leaves 17: 107-108.
Peters, B. G. 1926. (2483)
Heterodera schactii (Schmidt) and soil acidity. Jour. Helminthology 4: 87-114.
Petherbrydge, F. R., W. R. Dillon, and L. F. Newman. 1926. (2484)
A peculiar leaf scorch and dying of fruit trees in the Wisbeck district during 1923. Jour. Roy. Hort. Soc., London, 51: 324-330.
Pethybridge, G. H. 1918. (2485)
Investigations on potato diseases. Ninth Report. Jour. Ireland Dept. Agr. and Tech. Instr. 18: 2-8.
———. 1927. (2486)
Mycology and plant pathology. Trans. Brit. Mycol. Soc. 12: 91-105.
Petit, P. 1893. (2487)
Influence du fer sur la végétation de l'orge. Compt. Rend. Acad. Sci. (Paris) 117: 1105-1107.

Petri, L. 1910. (2488)
Beobachtungen über die schädliche Wirkung einiger toxischer Substanzen auf den Oelbaum. Centbl. Bakt. 27: 153-159.
————. 1913. (2489)
Disseccamento dei rametti di Pseudotsuga Douglasii Carr. prodotta da una varietà di Sphaeropsis Ellisii Sacc. Ann. Mycol. 11: 278-280.
————. 1913. (2490)
Contributo allo studie degli abbassamenti di temperatura sulle viti in rapporto all'arricciamento. Zeitschr. Pflanzenkr. 23: 356-358. (Abst.).
————. 1913. (2491)
Studi sulla malattie dell'olivo: alcune ricerche sulla biologia del Cycloconium oleaginum Cast. Rome.
————. 1924. (2492)
La reazione del terreno ed alcune malattie di piante agrarie. Nuovi Ann. Min. Agr. Italy 4: 248-251.
————. 1926. (2493)
Le malattie dell'olivo prodotte da cause inorganiche e da parassiti vegetali. Intern. Olivicolt. Cong. 8: 1-17.
————. 1926. (2494)
Clorosi maculata internervale delle foglie degli Agrumi. Boll. R. Staz. Pat. Veg. 6: 380-384.
————. 1927. (2495)
Rassegna dei casi fitopatalogici piu notevoli osservati nel 1926. Boll. R. Staz. Pat. Veg. 7: 1-45.
————. 1927. (2496)
Effect of manganese sulfate on lemon attacked by Colletotrichum gloeosporioides. (Italian). Boll. R. Staz. Pat. Veg. 7: 213-214.
————. 1927. (2497)
Ricerche sulle cause del mal secco dei limoni in Provincia di Messina e sui mezzi per combatterlo. Boll. R. Staz. Pat. Veg. 7: 229-284.
————. 1928. (2498)
Il "mal secco" dei Limoni in rapporto all'incoltura. Boll. R. Staz. Pat. Veg. 8: 216-221.
————. 1929. (2499)
Rassegna dei casi fitopatologici osservati nel 1928. Boll. R. Staz. Pat. Veg. 9: 1-65.
————. 1930. (2500)
La nutrizione minerale delle piante in rapporto alla predisposizione o alla resistenza di queste a cause patogene. Boll. R. Staz. Pat. Veg. 10: 121-152.
————. 1930. (2501)
Ulteriori ricerche sulla morfologia, biologia e parasitisma della "Deuterophoma tracheiphila". Boll. R. Staz. Pat. Veg. 10: 191-221.
Pettigrew, W. W. 1928. (2502)
The influence of air pollution on vegetation. Gardeners' Chron. 84: 292, 308-309, 335.
Peturson, B. 1930. (2503)
Effect of temperature on host reactions to physiologic forms of Puccinia coronata avenae. Sci. Agr. 11: 104-110.
Pfeiffer, T. and E. Blanck. 1912. (2504)
Beiträge zur Frage über die Wirkung des Mangans auf das Pflanzenwachstum. Landw. Vers. Sta. 77: 33-66.
———— and ————. 1914. (2506)
Beiträge zur Frage über die Wirkung des Mangans bezw. Aluminiums auf das Pflanzenwachstum. Landw. Vers. Sta. 83: 257-281.
Phillips, F. C. 1882. (2507)
The absorption of metallic oxides by plants. Jour. Franklin Inst. 84 (114): 41-49.
Phillips, F. J. 1907. (2508)
Effect of a late spring frost in the Southwest. Forestry and Irrig. 13: 484-492.
————. 1910. (2509)
Hail injury on forest trees. Trans. St. Louis Acad. Sci. 19: 49-56.
Piemeisel, F. J. 1917. (2510)
Factors affecting the parasitism of Ustilago zeae. Phytopath. 7: 294-307.
Pierce, N. B. 1892. (2511)
The California vine disease. U. S. Dept. Agr., Div. of Veg. Phys. and Path. Bull. 2, 1-222.

———. 1900. (2512)
Peach leaf curl: Its nature and treatment. U. S. Dept. Agr., Div. Veg. Phys. and Path. Bull. 20, 1-204.
Pieters, A. J. and J. Monteith. 1926. (2513)
Anthracnose as a cause of red clover failure in the southern part of the clover belt. U. S. Dept. Agr., Farmers' Bull. 1510, 1-17.
Pistor, R. 1930. (2514)
Beiträge zur Kenntnis der biologischen Tätigkeit von Pilzen in Waldböden. Centbl. Bakt. 80: 169-200, 378-410.
Pittman, H. A. 1930. (2515)
Some parasitic and non-parasitic causes of "empty" or "tipped" heads in wheat. Jour. Dept. Agr. W. Aust. 7: 153-164.
Plagge, H. H. 1925. (2516)
Soft-scald and breakdown of apples as affected by storage temperature. Proc. Amer. Soc. Hort. Sci. 22: 58-66.
———. 1929. (2517)
Effect of storage temperature on soggy breakdown of Golden Delicious apples. Proc. Amer. Soc. Hort. Sci. 25: 298-300.
———. 1930. (2518)
A study of soggy breakdown and some related functional diseases of the apple. Proc. Amer. Soc. Hort. Sci. 26: 315-318.
——— and T. J. Maney. 1924. (2519)
Apple storage investigations. Iowa Agr. Exp. Sta. Bull. 222, 1-64.
——— and ———. 1925. (2520)
Cold storage investigations with Wealthy apples. Iowa Agr. Exp. Sta. Bull. 230, 57-72.
——— and ———. 1928. (2521)
Soggy breakdown of apples and its control by storage temperatures. Iowa Agr. Exp. Sta. Res. Bull. 115, 61-116.
Plakidas, A. G. 1927. (2522)
Strawberry xanthosis (yellows), a new insect-borne disease. Jour. Agr. Res. 35: 1057-1090.
Plantz, P. 1929. (2523)
Vorbeugende Massnahmen gegen Krankheiten der Gewächshaustomaten! Obst- u. Gemüsebau 75: 136-137.
———. 1930. (2524)
Winterbekämpfung des amerikanischen Stachelbeermeltaues. Gartenflora 79: 27.
Plassmann, E. 1927. (2525)
Untersuchungen über den Lärchenkrebs. Neumann. 88 pp.
Platz, G. A. 1928. (2526)
The relation of oxygen to the germination of the chlamydospores of Ustilago zeae (Beckm.) Unger. Iowa State Col. Jour. Sci. 2: 137-144.
———. 1929. (2527)
Some factors influencing the pathogenicity of Ustilago zeae (Beckm.) Unger. Iowa State Col. Jour. Sci. 3: 177-200.
———, L. W. Durrel, and M. F. Howe. 1927. (2528)
Effect of carbon dioxide upon the germination of chlamydospores of Ustilago zeae. (Beckm.) Ung. Jour. Agr. Res. 34: 137-147.
Plummer, F. G. 1912. (2529)
Lightning in relation to forest trees. U. S. Dept. Agr., Forest Serv. Bull. 111, 1-36.
Plummer, J. K. and F. A. Wolf. 1920. (2530)
Injury to crops by borax. N. C. Dept. Agr. Bull. 41, 1-20.
Plunkett, O. A. 1928. (2531)
The occurrence of Peronospora sparsa Berk. on hot-house roses in southern California. Phytopath. 18: 950. (Abst.).
Poenicke, W. 1928. (2532)
Weitere Beobachtungen über Kupferschäden. Prakt. Ratgeb. Obst- u. Gartenbau 43: 355-356.
Poletika, W. von. 1928. (2533)
Agroklimatische Verhältnisse Russlands. Kulturtechniker 31: 507-519.
Pool, R. J. 1913. (2534)
Some effects of drouth upon vegetation. Science 38: 822-825.
Pool, V. W. and M. B. McKay. 1916. (2535)
Relation of stomatal movement to infection by Cercospora beticola. Jour. Agr. Res. 5: 1011-1038.

——— and ———. 1916. (2536)
Climatic conditions as related to Cercospora beticola. Jour. Agr. Res. 6: 21-60.
Poole, R. F. 1925. (2537)
Sweet potato disease studies. N. J. Agr. Exp. Sta. Ann. Rept. 45, 392-399.
———. 1925. (2538)
Tomato disease studies. N. J. Agr. Exp. Sta. Ann. Rept. 45, 400-403.
———. 1925. (2539)
The relation of soil moisture to the pox disease of sweet potatoes. Phytopath. 15: 48. (Abst.).
———. 1925. (2540)
The relation of soil moisture to the pox or ground rot disease of sweet potatoes. Phytopath. 15: 287-293.
———. 1925. (2541)
Fertilizer injuries to sweet potatoes. N. J. Agr. 7 (9): 7-8.
———. 1930. (2542)
A chemical control of sweet potato scurf. N. C. Agr. Exp. Sta. Tech. Bull. 38, 1-52.
Porter, C. L. 1927. (2543)
Survey of the vegetation in the vicinity of cement mills. Proc. Ind. Acad. Sci. 36: 263-267.
———. 1928. (2544)
Ecological relationships of fungi in culture. Proc. Ind. Acad. Sci. 37: 391-393.
Porter, D. R. 1928. (2545)
Infection studies with watermelon wilt caused by Fusarium niveum E. F. S. Iowa Agr. Exp. Sta. Res. Bull. 112, 345-368.
———. 1928. (2546)
Studies with the watermelon wilt, caused by Fusarium niveum E. F. S. Phytopath. 18: 143-144. (Abst.).
———. 1930. (2547)
Pathogenicity of Fusarium niveum and the resistance of some watermelon hybrids. Phytopath. 20: 116. (Abst.).
——— and I. E. Melhus. 1929. (2548)
Further studies on watermelon wilt in Iowa. Phytopath. 19: 84. (Abst.).
Potenza, G. 1928. (2549)
Osservazioni su la recettività dei cereali per la ruggine. Staz. Sperim., Bari Publ. 12: 1-72.
Potter, A. A. 1914. (2550)
Head smut of sorghum and maize. Jour. Agr. Res. 2: 339-371.
——— and L. E. Melchers. 1917. (2551)
Ecological observations on Ustilago zeae. Phytopath. 7: 73-74. (Abst.).
——— and ———. 1925. (2552)
Study of the life history and ecologic relations of the smut of maize. Jour. Agr. Res. 30: 161-173.
Potter, G. F. 1923. (2553)
Winter injury of apple roots. N. H. Agr. Exp. Sta. Bull. 208, 6-7.
———. 1924. (2554)
Experiments on resistance of apple roots to low temperatures. N. H. Agr. Exp. Sta. Tech. Bull. 27, 1-34.
Potter, M. C. 1912. (2555)
Bacterial diseases of plants. Jour. Agr. Sci. 4: 323-337.
———. 1923. (2556)
Wart disease of the potato. Preliminary experiments. Trans. Brit. Mycol. Soc. 8: 247-249.
Powell, G. H. 1898. (2557)
Pea canning in Delaware. Del. Agr. Exp. Sta. Bull. 41, 1-16.
———. 1899. (2558)
Some climatic and fungus diseases of the chestnut. Amer. Gard. 20: 559.
——— and S. H. Fulton. 1903. (2559)
The apple in cold storage. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 48, 1-64.
Powers, W. L. 1927. (2560)
The effect of hydrogen-ion concentration on the growth of certain plants. Soil Sci. 24: 1-7.
Pratolongo, U. 1925. (2561)
La clorosi alcalina della vite. Atti R. Accad. Naz. Lincei, Rend. Cl. Sci. Fis. Mat. e Nat. 1: 319-322.

Pratt, O. A. 1916. (2562)
A western field rot of the Irish potato tuber caused by Fusarium radicicola. Jour. Agr. Res. 6: 297-309.
————. 1916. (2563)
Control of powdery dry rot of western potatoes caused by Fusarium trichothecioides. Jour. Agr. Res. 6: 817-832.
Preti, G. 1926. (2564)
Studio intorno al cancro del Melo ed allo Sphaeropsis malorum. Ann. R. Ist. Scaola. Super. Agr., Portici, 1: 25-41.
Prevost, E. W. 1888. (2565)
Beiträge zur Kenntnis der Beschadigung der Pflanzen und Bäume durch Hüttenrauch. Landw. Vers. Sta. 35: 25-28.
Prévost, I. E. 1807. (2566)
Mémoire sur la cause immediate de la carie au charbon des blés et plusieurs autres maladies des plantes. Paris. 80 pp.
Priestley, J. H. 1922. (2567)
The toxic action of traces of coal gas upon plants. Ann. Appl. Biol. 9: 146-155.
————. 1924. (2568)
Tar, smoke, and coal gas as factors inimical to vegetation. Sci. Prog. 18: 587-596.
Priode, C. N. 1928. (2569)
Further studies in the ring-spot disease of tobacco. Amer. Jour. Bot. 15: 88-93.
Pritchard, F. J. 1911. (2570)
A preliminary report on the yearly origin and dissemination of Puccinia graminis. Bot. Gaz. 52: 169-192.
———— and W. S. Porte. 1921. (2571)
Collar-rot of tomato. Jour. Agr. Res. 21: 179-184.
———— and ————. 1921. (2572)
Effect of fertilizers and lime on the control of tomato leafspot (Septoria lycopersici). Phytopath. 11: 433-440.
———— and ————. 1922. (2573)
Isaria rot of tomato fruits. Phytopath. 12: 167-172.
———— and ————. 1923. (2574)
Watery-rot of tomato fruits. Jour. Agr. Res. 24: 895-905.
———— and ————. 1924. (2575)
The control of tomato leaf-spot. U. S. Dept. Agr., Dept. Bull. 1288, 1-18.
———— and ————. 1924. (2576)
The relation of temperature and humidity to tomato leafspot (Septoria lycopersici Speg.). Phytopath. 14: 156-169.
Prunet, A. 1902. (2577)
Développement du black-rot. Jour. Agr. Prat. 3: 674-676.
————. 1924. (2578)
Effets de la sécheresse et action des engrois minéraux sur diverses variétés de pommes de terre. Jour. Agr. Sud-Ouest 3: 94-106.
Pulst, C. 1902. (2579)
Die Widerstandsfähigkeit einiger Schimmelpilze gegen Metallgifte. Jahrb. Wiss. Bot. 37: 205-263.
Quaintance, A. L. 1900. (2580)
The brown rot of peaches, plums and other fruits. Ga. Agr. Exp. Sta. Bull. 50, 237-269.
Quanjer, H. M. 1928. (2581)
De invloed van kaligebrek op de vatbaarheid van Bloemkool voor Peronospora parasitica. Tijdschr. Plantenziek. 34: 254-256.
————. 1929. (2582)
Einfluss der Düngung auf die Gesundheit der Kartoffel I. Ernähr. Pflanze 25: 194-198.
———— and J. Hudig. 1923. (2583)
De Aardoppelschurft met betrekkung tot klimaat en bodem. Cultura 35: 1-12.
————, T. H. Thung, and D. L. Elze. 1930. (2584)
"Pseudonetnecrosis" of the potato. Phytopath. 20: 137. (Abst.).
Quinn, D. G. 1924. (2585)
Downy mildew. Jour. Dept. Agr. So. Aust. 27: 540-550.
————. 1928. (2586)
"Dieback" of apple trees. Fruit World of Australasia 29: 222.
Rabien, H. 1927. (2587)
Ueber Keimungs—und Infektions-bedingungen von Tilletia tritici. Arb. Biol. Reichsanst. Land- u. Forstw. 15: 297-353.

Radspinner, W. A. 1923. (2588)
Effects of certain physiological factors on blossom drop and yield of tomatoes. Proc. Amer. Soc. Hort. Sci. 19: 71-82.
Raines, M. A. 1922. (2589)
Vegetative vigor of the host as a factor influencing susceptibility and resistance to certain rust diseases of the higher plants. Amer. Jour. Bot. 9: 183-203, 215-238.
Raleigh, W. P. 1930. (2590)
Infection studies of Diplodia zeae (Schw.) Lev. and control of seedling blights of corn. Iowa Agr. Exp. Sta. Res. Bull. 124, 93-121.
Ramakrishnan, T. S. 1930. (2590a)
A wilt of zinnia caused by Sclerotium rolfsii. Madras Agr. Jour., Oct.
Rambousek, F. and F. Neuwirth. 1930. (2591)
Gewebsrisse im parenchymatischen Grundgewebe und die nachfolgende Fäulnis der Zuckerrübe. Zeitschr. f. Zuckerind. 15: 53-60.
Ramos, J. C. 1926. (2592)
Pythium damping-off of seedlings. Philippine Agr. 15: 85-97.
Ramsbottom, J. 1914-1915. (2593)
Iris leaf-blotch disease (Heterosporium gracile Sacc.). Jour. Roy. Hort. Soc., London, 40: 481-492.
Ramsey, G. B. 1918. (2594)
Influence of moisture and temperature upon infection by Spongospora subterranea. Phytopath. 8: 29-31.
———. 1922. (2595)
Basisporium gallarum Moll., a parasite of the tomato. Bot. Gaz. 74: 325-328.
———. 1925. (2596)
Sclerotinia species causing decay of vegetables under transit and market conditions. Jour. Agr. Res. 31: 597-632.
Ramsey, H. J. 1904. (2597)
Some observations on the Botrytis rot and drop of lettuce. Wis. Agr. Exp. Sta. Ann. Rept. 21, 279-288.
Rand, F. V. 1914. (2598)
Some diseases of pecans. Jour. Agr. Res. 1: 303-338.
———. 1917. (2599)
Leafspot-rot of pond lilies caused by Helicosporium nymphaearum. Jour. Agr. Res. 8: 219-232.
———. 1922. (2600)
Pecan rosette: Its histology, cytology, and relation to other chlorotic diseases. U. S. Dept. Agr., Dept. Bull. 1038, 1-42.
——— and L. C. Cash. 1921. (2601)
Stewart's disease of corn. Jour. Agr. Res. 21: 263-264.
Rands, R. D. 1917. (2602)
Early blight of potato and related plants. Wis. Agr. Exp. Sta. Res. Bull. 42, 1-48.
Rane, F. W. 1917. (2603)
Recent troubles with our forest trees. Trans. Mass. Hort. Soc., 57-69.
Rankin, W. H. 1918. (2604)
Manual of tree diseases. New York.
Rapin, J. 1927. (2605)
Action de la température et du sol sur le développement du Tilletia tritici (Carie du Blé). Ann. Agr. Suisse 28: 79-84.
Rapp, C. W. 1920. (2606)
Bacterial blight of beans. Okla. Agr. Exp. Sta. Bull. 131, 1-39.
Rappard. 1895. (2607)
Hirzfäule der Rüben und Kalkdüngung. Zeitschr. Pflanzenkr. 5: 250.
Rast, L. E. 1922. (2608)
Control of cotton wilt by the use of potash fertilizers. Jour. Amer. Soc. Agron. 14: 222-224.
Ráthay, E. 1891. (2609)
Einwirkung des Blitzes auf die Weinrebe. Sitzbr. K. Akad. Wiss. Wein 16 (9): 96.
Rathschlag, H. 1930. (2610)
Studien über Helminthosporium avenae. Phytopath. Zeitschr. 2: 469-492.
Raulin, J. 1869. (2611)
Études chimiques sur la végétation. Ann. Sci. Nat. Bot., Ser. 5, 11: 93-299.
Ravaz, L. 1907. (2612)
Le black-rot. Prog. Agr. et Vitic. 47: 747-749.

———————. 1917. (2613)
Chronique—Ce qu'il faut connaître du Mildiou. Règles à suivre pour le combattre. Prog. Agr. et Vitic. 38: 269-277.
———————. 1917. (2614)
Le mildiou. Prog. Agr. et Vitic. 38: 557-558.
———————. 1924. (2615)
Chronique: Traitement de la chlorose. Prog. Agr. et Vitic. 42: 365-366.
———————. 1924. (2616)
Chronique: Pour éviter la coulure. Prog. Agr. et Vitic. 81: 509-511.
———————. 1925. (2617)
Chronique: Le temps.—Le Mildiou. Prog. Agr. et Vitic. 83: 581-586.
———————. 1927. (2618)
La grillure des feuilles. Ann. École Nat. Agr., Montpellier, 19: 5-12.
———————. 1927. (2619)
Les dépérissementes de la vigne en Algérie. Prog. Agr. et Vitic. 87: 7-11.
———————. 1927. (2620)
Chronique: Le temps.—Orages.—Grêle—Rot blanc. Prog. Agr. et Vitic. 48: 197-198.
———————. 1928. (2621)
Recherches sur le court-noué. Prog. Agr. et Vitic. 90: 5-11, 53-63.
———————. 1928. (2622)
Sur les conditions d'apparition du court-noué. Prog. Agr. et Vitic. 90: 320-322.
———————. 1928. (2623)
Brûlures par les bouillies. Prog. Agr. et Vitic. 45: 545.
———————. 1929. (2624)
Chronique: Les brûlures des bouillies. Prog. Agr. et Vitic. 92: 55-57.
——————— and A. Bonnet. 1901. (2625)
Les effets de la foudre et la gélivure. Compt. Rend. Acad. Sci. (Paris) 132: 805-807.
———————, H. Lagatu, and Maume. 1928. (2626)
Un cas spécial de chlorose des Vignes américaines greffées. Ann. École Nat. d'Agr., Montpellier, 19: 159-179.
——————— and G. Verge. 1912. (2627)
Conditions de développement du mildiou de la vigne. Prog. Agr. et Vitic. 55: 296-300, 485-488.
——————— and ———————. 1913. (2628)
Influence de la température sur la germination des conidies du mildiou. Prog. Agr. et Vitic. 57: 170-177.
Ravn, F. K. 1900. (2629)
Nogle Helminthosporium—Arter og de af dem fremkaldte Sygdomme hos Byg og Havre. Bot. Tidsskr. 23: 101-321.
Raybaud, L. 1908. (2630)
De l'influence de la lumière sur la végétation de Rhizopus nigricans. Compt. Rend. Soc. Biol. (Paris) 64: 1172-1174.
Read, F. M. 1930. (2631)
"Soil alkali" investigations at Tresco. Jour. Dept. Agr. Victoria 28: 65-90.
Reckendorfer, P. 1930. (2632)
Das Flor und seine Beziehung zur Pflanze. Fortschr. Landw. 5: 481-484.
Reddick, D. 1910. (2633)
The weather and the plant pathologist. U. S. Dept. Agr., Mo. Weather Rev. 38: 4.
———————. 1911. (2634)
The black rot disease of grapes. N. Y. (Cornell) Agr. Exp. Sta. Bull. 293, 285-362.
———————. 1912. (2635)
Frost injury. Proc. N. Y. State Fruit Growers' Assoc. 11: 34-41.
———————. 1914. (2636)
Decay of celery in storage. Phytopath. 4: 45. (Abst.).
———————. 1917. (2637)
Effect of soil temperature on the growth of bean plants and on their susceptibility to a root parasite. Amer. Jour. Bot. 4: 513-519.
———————. 1918. (2638)
Lightning injury to grape vines. Phytopath. 8: 298.
Reddy, C. S. and W. E. Brentzel. 1922. (2639)
Investigations of heat canker of flax. U. S. Dept. Agr., Dept. Bull. 1120, 1-18.
——————— and J. Godkin. 1923. (2640)
A bacterial disease of brome-grass. Phytopath. 13: 75-85.

Reed, G. M. 1906. (2641)
Infection experiments with Erysiphe graminis. Trans. Wis. Acad. Sci. 15: 135-162.
————. 1910. (2642)
The influence of environmental conditions upon the development of plant diseases. Mo. State Bd. Hort. Bull. 31, 1-14.
————. 1912. (2643)
Infection experiments with the powdery mildew of wheat. Phytopath. 2: 81-87.
————. 1914. (2644)
An unusual outbreak of apple blossom blight. Phytopath. 4: 27-30.
————. 1914. (2645)
Influence of light on infection of certain hosts by powdery mildew. Science 39: 294-295. (Abst.).
————. 1915. (2646)
Physiological relations of powdery mildews to their hosts. Mo. Agr. Exp. Sta. Bull. 131, 469-470.
————. 1916. (2647)
The powdery mildews of Avena and Triticum. Mo. Agr. Exp. Sta. Res. Bull. 23, 1-19.
————. 1928. (2648)
Plant pathology. Brooklyn Bot. Gard. Rec. 17: 43-49.
————. 1928. (2649)
Physiologic races of bunt of wheat. Amer. Jour. Bot. 15: 157-170.
———— and J. A. Faris. 1924. (2650)
Disease resistance. Brooklyn Bot. Gard. Rec. 13: 28-31.
———— and ————. 1924. (2651)
Influence of environal factors on the infection of sorghums and oats by smuts. I. Experiments with covered and loose kernel smuts of sorghum. Amer. Jour. Bot. 11: 518-534.
———— and ————. 1924. (2652)
Influence of environal factors on the infection of sorghums and oats by smuts. II. Experiments with covered smut of oats and general considerations. Amer. Jour. Bot. 11: 579-599.
———— and L. E. Melchers. 1925. (2653)
Sorghum smuts and varietal resistance in sorghums. U. S. Dept. Agr., Dept. Bull. 1284, 1-56.
Reed, H. S. 1912. (2654)
Does Phytophthora infestans cause tomato blight? Phytopath. 2: 250-252.
———— and E. T. Bartholomew. 1930. (2655)
The effects of desiccating winds on citrus trees. Calif. Agr. Exp. Sta. Bull. 484, 1-59.
———— and J. S. Cooley. 1911. (2656)
Heterosporium variabile Cke., its relation to Spinacia oleracea and environmental factors. Va. Agr. Exp. Sta. Ann. Rept., 1909-1910, 78-99.
———— and ————. 1911. (2657)
Plant diseases in Virginia in the years 1909 and 1910. Va. Agr. Exp. Sta. Ann. Rept., 1909-1910, 99-119.
————, ————, and J. T. Rogers. 1912. (2658)
Foliage diseases of the apple. Va. Agr. Exp. Sta. Bull. 195, 1-22.
———— and ————. 1912. (2659)
Heterosporium variabile Cke., its relation to Spinacia oleracea and environmental factors. Centbl. Bakt. 32: 40-58.
————, ————, and C. H. Crabill. 1914. (2660)
Experiments on the control of the cedar rust of apples. Va. Agr. Exp. Sta. Bull. 203, 1-28.
———— and C. H. Crabill. 1913. (2661)
Plant diseases in Virginia in the years 1911 and 1912. Va. Agr. Exp. Sta. Ann. Rept., 1911-1912, 35-50.
———— and ————. 1915. (2662)
Notes on plant diseases in Virginia observed in 1913 and 1914. Va. Agr. Exp. Sta. Tech. Bull. 2, 37-58.
———— and ————. 1915. (2663)
The cedar rust disease of apples caused by Gymnosporangium juniperi-virginianae Schw. Va. Agr. Exp. Sta. Tech. Bull. 9, 1-106.
———— and A. R. C. Haas. 1923. (2664)
Studies on the effects of sodium, potassium, and calcium on young orange trees. Calif. Agr. Exp. Sta. Tech. Paper 11, 1-23.

———— and ————. 1924. (2665)
Nutrient and toxic effects of certain ions on citrus and walnut trees with especial reference to concentration on pH of the medium. Calif. Agr. Exp. Sta. Tech. Paper 17, 1-75.
Reed, W. G. and C. L. Feldkamp. 1915. (2666)
Selected bibliography of frost in the United States. U. S. Dept. Agr., Mo. Weather Rev. 43: 512-516.
Rees, H. L. 1915. (2667)
Control of damping-off fungi. Wash. Agr. Exp. Sta. Mo. Bull. 3 (1), 15-16.
Reichert, I. 1927. (2668)
Downy mildew (Plasmopara viticola) of the vine in Palestine. Proc. Zionist Agr. Exp. Sta. 7-8: 349-351.
———— and E. Hellinger. 1930. (2669)
Internal decline—a physiological disease of citrus fruits new to Palestine. Hadar 3: 14 pp. (Reprint).
Rein, R. 1908. (2670)
Untersuchungen über den Kältetod der Pflanzen. Zeitschr. Naturw. 80: 1-38.
Reinicke, R. 1930. (2671)
Die Kalkempfindlichkeit der gelben Lupine und der Anteil der Knöllchenbakterien an der Erkrankung. Zeitschr. Pflanzenernährung, Düng. u. Bodenkunde 17: 79-102.
Reinking, O. A. 1923. (2672)
Comparative study of Phytophthora faberi on coconut and cacao in the Philippine Islands. Jour. Agr. Res. 25: 267-284.
Remer, W. 1904. (2673)
Der Rost des Getreides in Schlesien im Sommer 1903. Zeitschr. Pflanzenkr. 14: 65-70.
Remy, T. and F. v. Meer. 1929. (2674)
Über das Wesen der Gelbrostschutzwirkung von Kalisalzdüngungen. Ernähr. Pflanze 25: 73-77.
Reuther. 1913. (2675)
Die Fusskrankheit des Weizens. Deutsche. Landw. Presse 40: 780.
Reveil, P. O. 1865. (2676)
Recherches de physiologie végétale de l'action des poisons sur les plantes. Paris.
Reyes, G. M. 1929. (2677)
A preliminary report on the stem-rot of rice. Philippine Agr. Rev. 22: 313-331.
Reynolds, E. S. 1912. (2678)
Relations of parasitic fungi to their host plants. Bot. Gaz. 53: 365-395.
————. 1918. (2679)
Two tomato diseases. Phytopath. 8: 535-542.
Rhoades, A. S. 1923. (2680)
The formation and pathological anatomy of frost rings in conifers injured by late frosts. U. S. Dept. Agr., Dept. Bull. 1131, 1-14.
————. 1923. (2681)
Notes on the failure of grapevines to set fruit and on shelling. Phytopath. 13: 513-519.
————. 1925. (2682)
Observations on citrus wilt. Proc. Fla. State Hort. Soc. 38: 26-39.
————. 1926. (2683)
Diseases of grapes in Florida. Fla. Agr. Exp. Sta. Bull. 178, 75-156.
————. 1927. (2684)
Citrus blight or wilt, water injury, and related troubles. Fla. Agr. Exp. Sta. Ann. Rept., 68-70.
Rhode, A. 1895. (2685)
Schädigung von Roggenfeldern, durch die einer Superphosphat-Fabrik entströmenden Gase. Zeitschr. Pflanzenkr. 5: 135-136.
Rice, M. A. 1927. (2686)
The haustoria of certain rusts and the relation between the host and pathogene. Bull Torrey Bot. Club 54: 63-154.
Richards, B. L. 1920. (2687)
Influence of soil temperature on potato diseases. Wis. Agr. Exp. Sta. Bull. 319, 32.
————. 1921. (2688)
The pathogenicity of Corticium vagum as affected by soil temperature. Phytopath. 11: 56. (Abst.).
————. 1921. (2689)
Pathogenicity of Corticium vagum on the potato as affected by soil temperature. Jour Agr. Res. 21: 459-482.

———. 1922. (2690)
Relation of rainfall to the late blight or Phoma rot of the sugar beet. Phytopath. 12: 443. (Abst.).
———. 1923. (2691)
Further studies on the pathogenicity of Corticium vagum on the potato as affected by soil temperature. Jour. Agr. Res. 23: 761-770.
———. 1923. (2692)
Soil temperature as a factor affecting the pathogenicity of Corticium vagum on the pea and the bean. Jour. Agr. Res. 25: 431-449.
———. 1928. (2693)
Irrigation as a cause of white spot of alfalfa. Phytopath. 18: 136-137. (Abst.).
———. 1929. (2694)
White-spot of alfalfa and its relation to irrigation. Phytopath. 19: 125-141.
Richards, H. M. and D. T. MacDougal. 1904. (2695)
The influence of carbon monoxide and other gases upon plants. Bull. Torrey Bot. Club 31: 57-66.
Richardson, J. K. 1923. (2696)
A study of the soft rot of Iris. Quebec Soc. Prot. Plants Ann. Rept. 15, 105-120.
Richter, W. 1895. (2697)
Ueber die Beziehungen des Scheideschlamms zum Auftreten der Herzfäule der Rüben. Zeitschr. Pflanzenkr. 5: 51-54.
Riede, W. 1923. (2698)
Ein einwandfreier Rauchschadennachweis. Mitt. Deut. Landw. Ges. 38: 423-424.
Riehm, E. 1917. (2699)
Nichtparasitäre Haferkrankheiten Dörrfleckenkrankheit, Perchloratvergiftung. Deutsche Landw. Presse 44: 62.
———. 1923. (2700)
Zur chemotherapie der Pflanzenkrankheiten. Zeitschr. Angew. Chem. 36: 3-4.
———. 1929. (2701)
Erprobte Beizmittel und Beizverfahren. Mitt. Deut. Landw. Ges. 64: 748-749.
Rigg, A. 1906. (2702)
On the destructive effect of smoke in relation to plant life. Jour. Roy. Sanitary Inst. 27: 160.
Rigg, T. and L. Tiller. 1927. (2703)
A report of certain diseases of the apple in the Nelson district, N. Z., 1925-26. Jour. Pomol. and Hort. Sci. 6: 113-127.
Rijks, A. B. 1916. (2704)
Banana diseases on the Salayer Islands. Dept. Landb. Nijv. an Hendel (D. E. Indies) Lab. Plantenzeikten Meded. No: 21, 1-16.
Riker, A. J. 1924. (2705)
Relations of temperature and moisture to the development of crown gall. Phytopath. 14: 30. (Abst.).
———. 1925. (2706)
The influence of temperature and of previous infection on the development of crown gall. Phytopath. 15: 45. (Abst.).
———. 1926. (2707)
Studies on the influence of some environmental factors on the development of crown gall. Jour. Agr. Res. 32: 83-96.
———. 1929. (2708)
Environment influences infection by bacterial plant parasites. Wis. Agr. Exp. Sta. Ann. Rept., Bull. 405, 73.
———. 1929. (2709)
Studies on the influence of environment on infection by certain bacterial plant parasites. Phytopath. 19: 96. (Abst.).
——— et al. 1930. (2710)
Studies on infectious hairy root of nursery apple trees. Jour. Agr. Res. 41: 507-540.
Riols, P. 1926. (2711)
Note sur le mildiou du Houblon. Rev. Path. Veg. et Ent. Agr. 13: 26-30.
Rippel, A. 1921. (2712)
Entwicklungs—und Ernährungszustand der Pflanzen in ihren Beziehungen zum Auftreten von parasitären Pflanzenkrankheiten. Fuhling's Landw. Zeit. 70: 428-435.
———. 1923. (2713)
Über die durch Mangan verursachte Eisenchlorose bei grünen Pflanzen. Biochem. Zeitschr. 140: 315-323.

——— and O. Ludwig. 1927. (2714)
Über den Einfluss des Ernährungszustandes der Gerste auf den Befall durch Pleospora trichostoma Wint. (Streifenkrankheit). Angew. Bot. 9: 541-560.
Ritthausen, H. and R. Pott. 1873. (2715)
Untersuchungen über den Einfluss einer an Stickstoff und Phosphorsaure reichen Düngung auf die Zusammensetzung der Pflanze und der Samen von Sommerweizen. Landw. Vers. Sta. 16: 384-399.
Ritzema-Bos, J. 1892. (2716)
Ergrünungmangel infolge zu niederer Frühlings—temperatur. Zeitschr. Pflanzenkr. 2: 136-142.
Rivera, V. 1913. (2717)
Primo contributo alle studio della recettività della quercia per l'oidio. Atti. R. Accad. Lincei, Rend. Cl. Sci. Fis. Mat. e Nat., Ser. 22, 5: 168-173.
———. 1915. (2718)
Ricerche sperimentali sulle cause predisponenti il frumento alla ''nebbia''. Zeitschr. Pflanzenkr. 25: 370-371. (Abst.).
———. 1924. (2719)
Cryptogamic epidemics and the environmental factors that determine them. Intern. Rev. Sci. and Pract. Agr., Rome, 2: 604-609.
Rives, L. 1924. (2720)
Le court-noué. Prog. Agr. et Vitic. 81: 424-426, 447-452.
———. 1928. (2721)
Sur un cas de fatigue du sol. La maladie des céréales semées sur défrichement du sol. Jour. Agr. Prat. 92: 491-494.
Riviere, G. et al. 1927. (2722)
La chlorose des arbres fruitiers. Pomol. Française, 118-124.
——— and G. Bailhache. 1910. (2723)
De la chlorose des arbres fruitiers. Prog. Agr. et Vitic. 53: 453-454.
Robbins, W. J. 1926. (2724)
Botany. Mo. Agr. Exp. Sta. Bull. 236, 44-45.
Roberts, H. F. 1919. (2725)
Yellow-berry in hard winter wheat. Jour. Agr. Res. 18: 155-169.
——— and G. F. Freeman. 1908. (2726)
The yellow-berry problem in Kansas hard winter wheats. Kan. Agr. Exp. Sta. Bull. 156, 1-35.
Roberts, J. W. 1917. (2728)
Control of peach bacterial spot in Southern orchards. U. S. Dept. Agr., Dept. Bull. 543, 1-7.
———. 1921. (2729)
Apple blotch and bitter rot and their control. Proc. Tenn. State Hort. Soc. 16: 38-45.
——— and J. C. Dunegan. 1927. (2730)
Peach brown rot and scab. U. S. Dept. Agr., Farmers' Bull. 1527, 1-14.
——— and L. Pierce. 1918. (2731)
Apple bitter-rot and its control. U. S. Dept. Agr., Farmers' Bull. 938, 1-14.
——— and ———. 1926. (2732)
Apple scab. U. S. Dept. Agr., Farmers' Bull. 1478, 1-12.
——— and ———. 1929. (2733)
A promising spray for the control of peach bacterial spot. Phytopath. 19: 106-107. (Abst.).
Roberts, R. H. 1917. (2734)
Winter injury to cherry blossom buds. Proc. Amer. Soc. Hort. Sci. 14: 105-110.
———. 1919. (2735)
''Crinkle'' on northwestern greening. Phytopath. 9: 261-263.
———. 1922. (2736)
The development and winter injury of cherry blossom buds. Wis. Agr. Exp. Sta. Res. Bull. 52, 1-24.
Robinson, G. H. 1907. (2737)
Take-all and its control. Jour. Dept. Agr. Victoria 5: 253-256.
Robinson, W. 1914. (2738)
Some experiments on the effect of external stimuli on the sporidia of Puccinia malvacearum (Mont.). Ann. Bot. 28: 331-340.
Rodenhiser, H. A. 1928. (2739)
Physiologic specialization in some cereal smuts. Phytopath. 18: 955-1003.

———. 1930. (2740)
Physiologic specialization and mutation in Phylactaena linicola Speg. Phytopath. 20: 931-942.
Rogers, W. E. 1922. (2741)
Ice storms and trees. Torreya 22: 61-63.
Rolfs, F. M. 1904. (2742)
Potato failures. Colo. Agr. Exp. Sta. Bull. 91, 1-33.
———. 1910. (2743)
Winter killing of twigs, cankers and sun scald of peach trees. Mo. State Fruit Exp. Sta. Bull. 17, 1-101.
———. 1915. (2744)
Angular leaf spot of cotton. S. C. Agr. Exp. Sta. Bull. 184, 1-30.
———. 1915. (2745)
A bacterial disease of stone fruits. N. Y. (Cornell) Agr. Exp. Sta. Mem. 8, 381-436.
———. 1920. (2746)
Blossom drop of tomatoes. Okla. Agr. Exp. Sta. Ann. Rept. 29, 47-49.
Rolfs, P. H. 1896. (2747)
Celery blight. Fla. Agr. Exp. Sta. Ann. Rept., 35-37.
———. 1898. (2748)
Diseases of the tomato. Fla. Agr. Exp. Sta. Bull. 47, 117-153.
———. 1904. (2749)
Wither-tip and other diseases of citrus trees and fruits caused by Colletotrichum gloeosporioides. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 52, 1-20.
———, H. S. Fawcett, and B. F. Floyd. 1911. (2750)
Diseases of citrus fruits. Fla. Agr. Exp. Sta. Bull. 108, 27-47.
Rommel, L. G. 1922. (2751)
Luftväxlingen i marken som ekologisk faktor. Meddel. Statens Skogsförsöksanst. 19: 125-359.
———. 1923. (2752)
Soil aeration. Intern. Rev. Sci. and Pract. Agr., Rome, 1: 281-297.
Roodenburg, J. W. M. 1927. (2753)
Zuurstofgebrek in den Grond in Verband met Wortelrot. Thesis, Univ. Utrecht. 103 pp.
Rosa, J. T. 1921. (2754)
Investigations on the hardening process in vegetable plants. Mo. Agr. Exp. Sta. Res. Bull. 48, 1-90.
Rose, D. H. 1917. (2755)
Blister spot of apples and its relation to a disease of apple bark. Phytopath. 7: 198-208.
———. 1924. (2756)
Diseases of stone fruits on the market. U. S. Dept. Agr., Farmers' Bull. 1435, 1-16.
———. 1924. (2757)
Leather rot of strawberries. Jour. Agr. Res. 28: 357-375.
———. 1925. (2758)
Internal breakdown of apples. Proc. Idaho Hort. Assoc. 25: 109-110.
———. 1926. (2759)
Relation of strawberry fruit rots to weather conditions in the field. Phytopath. 16: 229-232.
——— and L. F. Butler. 1927. (2760)
Relation of storage temperature to lag in growth of fungus cultures. Phytopath. 17: 55. (Abst.).
Rosen, H. R. 1922. (2761)
A bacterial disease of foxtail (Chaetochloa lutescens). Ann. Mo. Bot. Gard. 9: 333-388.
———. 1926. (2762)
Bacterial stalk rot of corn. Ark. Agr. Exp. Sta. Bull. 209, 1-28.
———. 1926. (2763)
Bacterial stalk rot of corn. Phytopath. 16: 241-266.
———. 1927. (2764)
The control of cotton wilt by the use of organic fertilizers. Science 65: 616-617.
———. 1928. (2765)
A consideration of the pathogenicity of the cotton-wilt fungus, Fusarium vasinfectum. Phytopath. 18: 419-438.
——— and J. A. Elliott. 1923. (2766)
Pathogenicity of Ophiobolus cariceti in its relationship to weakened plants. Jour. Agr. Res. 25: 351-358.

——— and L. Shaw. 1929. (2767)
Studies on Sclerotium rolfsii, with special reference to the metabolic interchange between soil inhabitants. Jour. Agr. Res. 39: 41-61.
Rosenbaum, J. 1920. (2768)
Infection experiments on tomatoes with Phytophthora terrestria Sherb. and a hot water treatment of the fruit. Phytopath. 10: 101-105.
——— and G. B. Ramsey. 1918. (2769)
Influence of temperature and precipitation on the blackleg of potato. Jour. Agr. Res. 13: 507-513.
——— and C. E. Sando. 1920. (2770)
Correlation between size of the fruit and the resistance of the tomato skin to puncture and its relation to infection with Macrosporium tomato Cooke. Amer. Jour. Bot. 7: 78-82.
Ross, H. 1924. (2771)
Über die Pfefferminzen und deren Befall durch den Rostpilz Puccinia menthae Pers. Zeitschr. Pflanzenkr. 34: 101-107.
Rostrup, E. 1894. (2772)
Phoma sanguinolenta. Ein den Samentrag der Möhre (Daucus carota) vernictender Pilz. Zeitschr. Pflanzenkr. 4: 195-196.
Rothert, W. 1906. (2773)
Das Verhalten des Pflanzen gegenüber dem Aluminum. Bot. Zeit. 64: 43-52.
Roussakov, L. 1923. (2774)
Observations sur l'influence des conditions météorologiques sur le développement de la rouilles des céréales. Rept. Intern. Conf. Phytopath. and Econ. Entomol. Holland, 277-280.
———. 1924. (2774a)
Peculiarities of the micro-climate in the midst of plants in connection with the development of cereal rusts (Russian). Trans. Russian Ent.-Phytopath. Cong. 4: 201-216.
———. 1925. (2775)
A mass infection of winter rye with Puccinia coronifera Kleb. in the fall of 1924. (German Summary). Jour. Div. Phytopath. Main Bot. Gard. R. S. S. R., 7-11.
———. 1927. (2776)
Cereal rusts in the Far East. (Trans. title). Mat. Mikol Fitopat. 6: 96-122.
Roux, C. 1900. (2777)
Traité historique, critique et expérimental des rapports des plantes avec le sol et de la chlorose végétale. Paris.
———. 1908. (2778)
Les phytopathies edaphiques ou maladies des plantes attribuables aux substances minérales du sol. Ann. Soc. Bot., Lyon, 33: 1-41.
Rubner. 1921. (2779)
Die Spätfröste und die Verbreitungsgrenzen unserer Waldbäume. Forstw. Centbl. 43: 41-49, 100-114.
Rump, L. 1926. (2780)
Studien über den Gerstenhartbrand (Ustilago hordei Kell. u. Sw.). Forsch. Gebeit. Pflanzenkr. u. Immun. Pflanzen-reich 2: 21-76.
Runk, C. R. 1928. (2781)
Effect of potash on chlorosis of soybeans. Jour. Amer. Soc. Agron. 20: 876-877.
Ruprecht, R. W. 1915. (2782)
Toxic effect of iron and aluminum salts on clover seedlings. Mass. Agr. Exp. Sta. Bull. 161, 125-129.
——— and F. W. Morse. 1915. (2783)
The effect of sulfate of ammonia on soil. Mass. Agr. Exp. Sta. Bull. 165, 73-90.
——— and ———. 1917. (2784)
The cause of the injurious effect of sulfate of ammonia when used as a fertilizer. Mass. Agr. Exp. Sta. Bull. 176, 119-134.
Rusnov, P. von. 1910. (2785)
Ueber die Festellung von Rauchschaden im Nadelwald. Centbl. Gesam. Forstw. 36: 257-268 and Abst. in Exp. Sta. Rec. 23: 726.
Russell, E. J. 1915. (2786)
Soil conditions and plant growth. London.
———. 1921. (2787)
Soil conditions and plant growth. London.
Russell, H. L. 1898. (2788)
A bacterial rot of cabbage and allied plants. Wis. Agr. Exp. Sta. Bull. 65, 1-39.

Ruston, A. G. 1911. (2789)
Effects of smoke on vegetation. Proc. Conf. Smoke Abatement League of Great Britain, Manchester, 21-22: 44-53.
————. 1920. (2790)
Air pollution by coal smoke. Jour. Min. Agr., London, 27: 69-77.
————. 1921. (2791)
The plant as an index of smoke pollution. Ann. Appl. Biol. 7: 390-402.
Ruth, W. A. 1925. (2792)
The effect of drought on apple trees. Trans. Ill. State Hort. Soc. 59: 106-126.
Sabachnikoff, V. 1913. (2793)
Contribution à l'études des fumées et des poussières industrielles dans leurs rapports avec la végétation. Thesis, Univ. Nancy. 252 pp.
————. 1917. (2794)
Les fumées industrielles et leur influence nocive sur la végétation. Vie Agr. et Rurale 7: 390-393.
Sachs, J. 1886. (2795)
Das Eisen und die Chlorose der Pflanzen. Naturw. Rundschau 1: 257-259.
————. 1888. (2796)
Erfahrung über die Behandlung chlorotischer Gartenpflanzen. Arb. Bot. Inst., Wurzburg, 3: 433-458.
Sackett, W. G. 1910. (2798)
A bacterial disease of alfalfa. Colo. Agr. Exp. Sta. Bull. 158, 1-32.
————. 1916. (2799)
A bacterial stem blight of field and garden peas. Colo. Agr. Exp. Sta. Bull. 218, 1-43.
Safro, V. I. 1913. (2800)
An investigation of lime-sulfur injury; its cause and prevention. Ore. Agr. Exp. Sta. Res. Bull. 2, 1-32.
Sahasrabuddhe, D. L. 1927. (2801)
A remedy for a die-back disease of orange trees. Agr. Jour. India 22: 114-117.
Saito, K. 1904. (2802)
Eine neue Art der "Chinesischen-Hefe". Centbl. Bakt. 13: 153-160.
Sajó, K. 1901. (2803)
Meteorologische Ansprüche von Oidium Tuckeri und Peronospora viticola. Zeitschr. Pflanzenkr. 11: 92-95.
————. 1901. (2804)
Verschiedene meteorologische Ansprüche der schädlichen Pilze. Prometheus 13: 132-135; 154-157.
————. 1902. (2805)
Weitere Mitteilungen über die meteorologischen Ansprüche der schädlichen Pilze. Zeitschr. Pflanzenkr. 12: 151-157.
Salisbury, E. J. 1922. (2806)
Stratification and hydrogen-ion concentration of the soil in relation to leaching and plant succession with special reference to woodlands. Jour. Ecology 9: 220-240.
————. 1922. (2807)
The soils of Blakeny Point: A study of soil reaction and succession in relation to the plant covering. Ann. Bot. 36: 391-431.
————. 1925. (2808)
The incidence of species in relation to soil reaction. Jour. Ecology 13: 149-160.
Salmon, E. S. 1900. (2809)
The strawberry mildew (Sphaerotheca humuli (DC.) Burr.). Jour. Roy. Hort. Soc., London, 25: 132-138.
————. 1904. (2810)
Cultural experiments with barley mildew, Erysiphe graminis DC. Ann. Mycol. 2: 70-99.
————. 1904-1905. (2811)
On a fungus disease of Euonymus japonicus L. Jour. Roy. Hort. Soc., London, 29: 434-442.
————. 1914. (2812)
American gooseberry mildew. Jour. Board Agr., London, 20: 1057-1079.
————. 1927. (2813)
On forms of the hop resistant to mildew (Sphaerotheca humuli (DC.) Burr.); VI. Temporary loss of immunity. Ann. Appl. Biol. 14: 263-275.
Salmon, S. C. 1917. (2814)
Why cereals winterkill. Jour. Amer. Soc. Agron. 9: 353-380.

———. 1918. (2815)
Some factors in the winterkilling of grain crops. Proc. Kan. Acad. Sci. 28: 129-131.
———. 1918. (2816)
A preliminary note on soil moisture and temperature factors in the winter-killing of grain crops. Science 47: 173-174.
Salter, R. M. and T. C. McIlvaine. 1920. (2817)
Effect of reaction of solution on germination of seeds and on growth of seedlings. Jour. Agr. Res. 19: 73-95.
Sampson, A. W. 1912. (2818)
The relation of soil acidity to plant societies. Proc. Soc. Amer. Foresters 7: 51-57.
Sampson, K. 1924. (2819)
Seasonal notes on the fungus diseases of grasses in the Aberystwyth district. Agric. Prog. 1: 106-107.
Samuel, G. 1927. (2820)
On the shot-hole disease caused by Clasterosporium carpophilum and on the "shot-hole" effect. Ann. Bot. 41: 375-404.
——— and C. S. Piper. 1928. (2821)
Grey speck (manganese deficiency) disease of oats. Jour. Dept. Agr. So. Aust. 31: 696-705, 789-799.
——— and ———. 1929. (2822)
Manganese as an essential element for plant growth. Ann. Appl. Biol. 16: 493-524.
Sanders, G. E. 1916. (2823)
Arsenate of lead versus arsenate of lime. Proc. Ent. Soc. Nova Scotia 2: 40.
Sandsten, E. P. 1898. (2824)
The influence of gases and vapors upon the growth of plants. Minn. Bot. Studies, Ser. 2, 1: 53-68.
Sanford, G. B. 1923. (2825)
The relation of soil moisture to the development of common scab of potato. Phytopath. 13: 231-236.
———. 1924. (2826)
Some factors influencing the development of potato scab. Phytopath. 14: 58-59. (Abst.).
———. 1926. (2827)
Some factors affecting the pathogenicity of Actinomyces scabies. Phytopath. 16: 525-547.
———. 1927. (2828)
Important soil-borne diseases of crops in Western Canada. Sci. Agr. 7: 292-294.
———. 1928. (2829)
Report of the Dominion Laboratory of Plant Pathology for Alberta. Canada Dept. Agr., Div. Bot. Rept., 1927, 112-115.
Sanson, J. 1928. (2830)
La sécheresse de l'été 1928 et ses répercussions sur les principales cultures. Bull. Agr. (Paris) 48 (1851): 27-29.
———. 1928. (2831)
Les effets des gelées du mois de Décembre 1927 sur les ensemencements des céréales en France. Compt. Rend. Acad. Agr. France 14: 592-600.
Sartoris, G. B. 1929. (2832)
Low-temperature injury to stored sugar cane. Jour. Agr. Res. 38: 195-203.
Sartory, A. 1927. (2833)
Étude de la concentration optima en ions H des milieux dans la culture de quelques champignons inférieurs. Bull. Sci. Pharm. 34: 75-79.
——— et al. 1930. (2834)
Étude d'une nouvelle espèce d'Aspergillus: Aspergillus halophilus. Ann. Mycol. 28: 362-363.
Sasaki, S. 1929. (2835)
A Phomopsis disease of soy bean. Jap. Jour. Bot. 4: 102. (Abst.).
Sattar, A. 1930. (2836)
Sorosporium paspali McAlp. on Paspalum scrobiculatum L., Kodra smut. Imper. Inst. Agr. Res., Pusa, Bull. 201, 1-16.
Savastano, G. and H. S. Fawcett. 1928. (2837)
The effect of mixed inoculations of certain citrus fruit-rotting organisms. Phytopath. 18: 949. (Abst.).

——— and ———. 1929. (2838)
A study of decay in citrus fruits produced by inoculations with known mixtures of fungi at different constant temperatures. Jour. Agr. Res. 39: 163-198.
Savastano, L. 1887. (2839)
Tuberculosi, perplasie e tumori dell'olivo. Memoria I e II. Naples.
———. 1922. (2840)
Studi ed esperimenti sul Marciume Radicale Degli Agrumi. Ann. R. Staz. Sper. Agrumic. e. Fruttic. Acireale 6: 125-138.
Savulescu, T. and I. Radulescu. 1929. (2841)
Une nouvelle maladie bacterienne des feuilles du Tabac en Roumanie. Trav. Inst. Recherches Agron. Roumanie. 52 pp.
Sawada, K. and C. Chen. 1926. (2842)
On the putrefaction disease of seedlings of Antirrhinum majus (Japanese). Jour. Nat. Hist. Soc., Formosa, 16: 199-212.
Scaramuzzi, D. 1929. (2843)
Contributo all studio dei donni de gelo. Ital. Agr. 66: 263-277.
Schaaf, G. 1930. (2844)
Der Winter 1928-29 und seine Einwirkungen auf die Pflanzenwelt. Aus der Heimat 43: 33-43.
Schaarschmidt, W. 1930. (2845)
Einfluss der Ernährung auf die Empfänglichkeit der Kulturpflanzen für parasitäre Krankheiten. Ernähr. Pflanze 26: 265-277.
Schaffnit, E. 1909. (2846)
Biologische Beobachtungen über die Keimfähigkeit und Keimung der Uredo—und Aecidiensporen der Getreideroste. Ann. Mycol. 7: 509-523.
———. 1910. (2847)
Studien über den Einfluss niederer Temperturen auf die pflanzliche Zelle. Mitt. Kaiser Wilhelm's Inst. Landw. 3: 93-115.
———. 1912. (2848)
Der Schneeschimmel und die übrigen durch Fusarium nivale Ces. hervorgerufenen Krankheitserscheinungen des Getreides. Landw. Jahrb. 43: 521-648.
———. 1922. (2849)
Zur Bekämpfung der Pilzkrankheiten des Getreidekorns. Landw. Jahrb. 57: 259-283.
———. 1930. (2850)
Ertragseinbussen im Getreidebau durch Fusskrankheiten. Mitt. Deut. Landw. Ges. 45: 1-5.
——— and K. Boning. 1925. (2851)
Die Brennfleckenkrankheiten der Bohnen, eine monographische Studie auf biologischer Grundlage. Centbl. Bakt. 63: 176-254, 360-438, 481-508.
——— and K. Meyer-Hermann. 1930. (2852)
Beiträge zur Kenntnis der Wechwelbeziehungen zwischen Kulturpflanzen, ihren Parasiten und der Umwelt. (3 Mitteilung). Über den Einfluss der Bodenreaktion auf die Lebenweise von Pilzparasiten und das Verhalten ihrer Wirtspflanzen. Phytopath. Zeitschr. 2: 99-166.
——— and L. Rump. 1923. (2853)
Beobachtungen über Rostkrankheiten des Getreides. Mitt. Deut. Landw. Ges. 38: 624-628, 639-642.
——— and A. Volk. 1927. (2854)
Über den Einfluss der Ernährung auf die Empfänglichkeit der Pflanzen für Parasiten. (I. Teil). Forsch. Gebiet. Pflanzenkr. u. Immun. Pflanzenreich 3: 1-45.
——— and ———. 1930. (2855)
Beiträge zur Kenntnis der Wechselbeziehungen zwischen Kulturpflanzen, ihren Parasiten und der Umwelt. (II. Mitteilung). Über den Einfluss der Ernährung auf die Empfänglichkeit der Pflanzen für Parasiten. (II. Teil). Phytopath. Zeitschr. 1: 535-574.
——— and M. Wieben. 1928. (2856)
Untersuchungen über den Erreger der Federbuschsporenkrankheit Dilophospora alopecuri (Fr.) Fr. Forsch. Gebiet. Pflanzenkr. u. Immun. Pflanzenreich 5: 3-38.
Schander, R. 1904. (2857)
Über die physiologische Wirkung der Kupfervitriolkalkbrühe. Landw. Jahrb. 33: 517-584.
———. 1911. (2858)
Die Berücksichtigung der Witterungsverhältnisse in den Berichten über Pflanzenschutz der Hauptsammelstellen für Pflanzenkrankheiten. Jahrb. Ver. Angew. Bot. 9: 1-22.

———. 1914. (2859)
Über Hagelbeschädigungen an Roggen, Weizen, Gerste und Hafer. Fuhling's Landw. Zeit. 63: 657-703.
———. 1927. (2860)
Physiologische Untersuchungen an blattrollkranken Kartoffeln. Landw. Vers. Sta. 105: 198-204.
——— and F. Krause. 1916. (2861)
Berichte über Pflanzenschutz der Abteilung für Pflanzenkrankheiten des Kaiser Wilhelm—Instituts für Landwirtschaft in Bromberg. Die Vegetationsperiod 1913-1914. Berlin.
——— and G. Schweizer. 1925. (2862)
Säurekrankheit der Kartoffelpflanzen. Pflanzenbau 2 (7): 103-106.
Schätzlein, C. 1925. (2863)
Schädlingsbekämpfung mit Arsensalzen und Pflanzenwuchs. Anzeiger Schädl. 1: 25-27.
Schellenberg, A. 1929. (2864)
Die Winterkälteschäden an den Obstbäumen und den Reben; Massnahmen zur Behandlung der geschädigten Pflanzen. Schweiz. Zeitschr. Obst- u. Weinb. 38: 206-215.
———. 1930. (2865)
Die Frühjahrs- und Winterfrostschäden in den zürcherischen Rebbergen der Jahre 1926, 1927, 1928, and 1929. Landw. Jahrb. Schweiz 44: 83-124.
Schenk, P. J. 1926. (2866)
Zonnebrand. Floralia 47: 586-587.
Scherpe, R. 1920. (2867)
Untersuchungen über die Ursache der Dörrfleckenkrankheit des Hafers. Arb. Biol. Reichsanst. Land- u. Forstw. 10: 307-358.
Schiff-Giorgini, R. 1906. (2868)
Untersuchungen über die Tuberkelkrankheit des Oelbaumes. Centbl. Bakt. 15: 200-211.
Schikorra, W. 1916. (2869)
Beitrage zur Dörrfleckenkrankheit des Hafers. Centbl. Bakt. 45: 578-586.
Schilberszky, K. 1928. (2870)
Ecology of the potato fungus Phytophthora infestans. (Trans. title). Budapest. 98 pp.
Schindler, F. 1880. (2871)
Ueber den Einfluss verschiedener Temperaturen auf die Keimfähigkeit der Steinbrandsporen. Forsch. Gebiet. Agr.-Physik. 3: 288-293.
Schipper. 1925. (2872)
Die Habel- und Fusikladium-Empfindlichkeit unserer Obstsorten. Gartenwelt 29: 95-96.
Schlegel, H. 1900. (2873)
Beobachtungen aus der Proxis über den Einfluss der Winter auf die Pilzkrankheiten des Weinflockes. Weinbau u. Weinhandel 18: 117-118.
Schlumberger, O. 1929. (2874)
Hagel- und Frostschäden, ihre Feststellung und Bewertung. Illus. Landw. Zeit. 49: 265-266.
Schmidt, E. 1928. (2875)
Schädigungen der Kartoffel durch Pilze der Gattung Fusarium Lk. Arb. Biol. Reichsanst. Land- u. Forstw. 15: 537-592.
Schmidt, E. W. 1928. (2876)
Untersuchungen über die Cercospora-Blattfleckenkrankheit der Zuckerrübe. Zeitschr. Parasitenkunde 1: 100-137.
Schmitt. 1930. (2877)
Einfluss des Bodens und der Düngung auf das Auftreten der Schwarzbeinigkeit des Weizens (Ophiobolus graminis). Superphosphate 6: 147.
Schmitt, L. 1930. (2878)
Beiträge zur Frage der Giftwirkung von Arsenverbindungen auf den Boden und das Wachstum der Pflanze. Fortschr. Landw. 5: 633-637.
Schmitz, N. 1910. (2879)
Wheat—variety tests and diseases. Md. Agr. Exp. Sta. Bull. 147, 33-45.
Schneiderhan, F. J. 1925. (2880)
Rainfall in relation to ascospore discharge and infection in Venturia inequalis. Phytopath. 15: 56. (Abst.).
———. 1926. (2881)
Apple disease studies in northern Virginia. Va. Agr. Exp. Sta. Bull. 245, 1-35.
——— and F. D. Fromme. 1924. (2882)
Apple scab and its control in Virginia. Va. Agr. Exp. Sta. Bull. 236, 1-29.

Schneider-Orelli, O. 1912. (2883)
Versuche über die Wachstumsbedingungen und Verbreitung der Fäulnispilze des Lagerobstes. Centbl. Bakt. 32: 161-169.
————. 1912. (2884)
Zur Kenntnis des mitteleuropäischen und des nordamerikanischen Gloeosporium fructigenum. Centbl. Bakt. 32: 459-467.
Schoevers, T. A. C. 1929. (2885)
Een proef met zwavelzure kali tegen "randjesziekte" bij Roode Bessen. Versl. Meded. Plantenziek. Dienst, Wageningen, 58: 7-10.
————. 1929. (2886)
Een proef met zwavelzure kali tegen "Randjesziekte" bij roode bessen. Tijdschr. Plantenziek. 35: 231-233.
Schollenberger, C. J. 1930. (2887)
Effect of leaking natural gas upon the soil. Soil Sci. 29: 261-266.
Schreiber. 1892. (2888)
Über die Beziehungen zwischen dem Umsichgreifen der Rostkrankheit bei dem Weizen und den Witterungsverhältnissen. Zeitschr. Pflanzenkr. 2: 57-59. (Abst.).
Schreiner, O. 1917. (2889)
Fertilizer studies on potash hunger of the potato. Proc. Amer. Potato Assoc. 4: 40-50.
————, B. E. Brown, J. J. Skinner, and M. Shapovalov. 1920. (2890)
Crop injury by borax in fertilizers. U. S. Dept. Agr., Dept. Circ. 84, 1-35.
———— and P. R. Dawson. 1927. (2891)
Manganese deficiency in soils and fertilizers. Jour. Indus. and Engin. Chem. 19: 400-404.
Schrenk, H. von. 1898. (2892)
The trees of St. Louis as influenced by the tornado of 1896. Trans. St. Louis Acad. Sci. 8: 25-40.
————. 1903. (2893)
On the production of wart-like intumescences produced by various fungicides. Science 17: 263.
————. 1905. (2894)
Glassy fir. Mo. Bot. Gard. Ann. Rept. 16, 117-120.
————. 1905. (2895)
Intumescences formed as a result of chemical stimulation. Mo. Bot. Gard. Rept. 16, 125-148.
————. 1907. (2896)
On frost injuries to sycamore buds. Mo. Bot. Gard. Ann. Rept. 18, 81-83.
———— and P. Spaulding. 1909. (2897)
Diseases of deciduous forest trees. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 149, 1-85.
Schribner, F. L. 1886. (2898)
Report on the fungous disease of the grape vine. U. S. Dept. Agr., Bot. Div. Bull. 2: 1-136.
———— and P. Viala. 1888. (2899)
Black rot. U. S. Dept. Agr., Bot. Div. Bull. 7, 1-29.
Schribaux, E. 1929. (2900)
Influence des engrois sur la résistance au froid du seigle d'hiver. Compt. Rend. Acad. Agr. France 15: 571-574.
Schröder, J. von. 1872 and 1873. (2901)
Einwirkung der schwefligen Säure auf die Pflanzen. Landw. Vers. Sta. 15: 321-355; 16: 447-470.
————. 1880. (2902)
Ueber die Beshädigung der Vegetation durch saure Gase. Landw. Vers. Sta. 24: 392-423.
———— and C. Reuss. 1883. (2903)
Die Beschädigung der Vegetation durch Rauch usw. Berlin.
Schuckenberg, A. 1924. (2904)
Zur Kenntnis der Pflanzenschädigung auf sauren Böden. Zeitschr. Pflanzenernähr. u. Düng. 3 (A): 65-90.
Schultz, E. S. 1916. (2905)
Silver-scurf of the Irish potato caused by Spondylocladium atrovirens. Jour. Agr. Res. 6: 339-350.
Schulz, G. 1927. (2906)
Der Einfluss der Düngung des Bodens auf die Verbreitung der Getreideroste. Illus. Landw. Zeit. 47: 637.

———. 1930. (2907)
Der Einfluss der Ernährung des Getreides auf den Befall durch Erysiphe graminis DC. Wiss. Arch. Landw., Abt. A, 3: 371-388.
———. 1930. (2907a)
Der Einfluss der Ernährung des Getreides auf den Befall durch Erysiphe graminis DC. Centbl. Bakt. 82: 15-22. (Abst.).
Schuster, G. L. 1929. (2908)
Chlorosis. Better Crops 12 (5): 20-21, 48-49.
Schuster, J. 1912. (2909)
Zur Kenntnis der Bakterienfäule der Kartoffel. Arb. K. Biol. Anst. Land- u. Forstw. 8: 452-491.
Schuster, L. 1914. (2910)
Hitzetod junger Pflanzen. Naturw. Zeitschr. Forst- u. Landw. 12: 377-379.
Schwarz, M. B. 1926. (2911)
De roestvlekkenziekte van aardappelknollen in Nederlandsch Oost-Indie. Tijdschr. Plantenziekten 32: 321-330.
Schwyter, A. 1928. (2912)
Über eine eigentümliche Blitzbeschädigung im Walde. Mitteil. Thurgauischen Naturforsch. Ges. 27: 180-184.
Scott, I. T. 1922. (2913)
Tomato wilt. Mo. Agr. Exp. Sta. Bull. 147, 49.
———. 1924. (2914)
The influence of hydrogen-ion concentration on the growth of Fusarium lycopersici and on tomato wilt. Mo. Agr. Exp. Sta. Res. Bull. 64, 1-32.
———. 1929. (2915)
Hydrogen-ion equilibrium of mycelial mats of Fusarium lycopersici in salt solutions and its relation to growth and toxicity. Amer. Jour. Bot. 16: 631-643.
Scott, W. M. 1906. (2916)
The control of apple bitter-rot. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 93, 1-33.
———. 1909. (2917)
Lime-sulphur mixtures for the summer spraying of orchards. U. S. Dept. Agr., Bur. Pl. Indus. Circ. 27, 1-17.
——— and T. W. Ayres. 1910. (2918)
The control of peach brown-rot and scab. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 174, 1-26.
——— and J. B. Rorer. 1909. (2919)
Apple blotch, a serious disease of southern orchards. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 144, 1-23.
Seal, J. L. 1928. (2920)
Coconut bud rot in Florida. Fla. Agr. Exp. Sta. Bull. 199, 1-87.
Seelhorst, C. von. 1904. (2921)
Rübenbeschädigung durch Blitz. Deutsche Landw. Presse 31: 515-516.
———. 1906. (2922)
Die durch Kalimangel bei Vietsbohnen, Phaseolus vulgaris nanus, hervorgerufenen Erscheinungen. Zeitschr. Pflanzenkr. 16: 2-5.
Seeley, D. A. 1922. (2923)
The great glaze storm of February 21-23, in Michigan. U. S. Dept. Agr., Mo. Weather Rev. 50: 80-82.
Selby, A. D. 1898. (2924)
Preliminary report upon diseases of the peach. Ohio Agr. Exp. Sta. Bull. 92, 179-236.
———. 1898. (2925)
Some diseases of wheat and oats. Ohio Agr. Exp. Sta. Bull. 97, 31-61.
———. 1899. (2926)
Variations in the amount of leaf curl of the peach (Exoascus deformans) in the light of weather conditions. Proc. Soc. Prom. Agr. Sci. 20: 98-104.
———. 1907. (2927)
On the occurrence of Phytophthora infestans Mont. and Plasmopora cubensis (B. & C.) Humph. in Ohio. Ohio Nat. 7 (4): 79-85.
———. 1908. (2928)
Fall and early winter injuries to orchard trees and shrubbery by freezing. Ohio Agr. Exp. Sta. Bull. 192, 129-148.
Sellschop, J. P. F. and S. C. Salmon. 1928. (2929)
The influence of chilling, above the freezing point, on certain crop plants. Jour. Agr. Res. 37: 315-338.

Sempolowski, A. 1895. (2930)
Beitrag zur bekämpfung der Kartoffelkrankheit. Zeitschr. Pflanzenkr. 5: 203-204.
Serrano, F. B. 1928. (2931)
Bacterial fruitlet brown-rot of pineapple in the Philippines. Philippine Jour. Sci. 36: 271-305.
Setchell, W. A. 1903. (2932)
The upper temperature limits of life. Science 17: 934-937.
Sette, N. 1930. (2933)
Lésions observées chez d'autres végétaux cultivés dans les près d'une fabrique de perphosphates. Soc. Internaz. Microbiol. Boll. Sez. Italiana 2: 252-254.
Shapovalov, M. 1915. (2944)
Effect of temperature on the germination and growth of the common potato-scab organism. Jour. Agr. Res. 4: 129-133.
————. 1925. (2945)
Ecological aspects of a pathological problem (Western yellow blight of tomatoes). Ecology 6: 241-259.
————. 1925. (2946)
High evaporation: A precursor and a concomitant of western yellow tomato blight. Phytopath. 15: 470-478.
————. 1927. (2947)
Inoculation experiments with western yellow tomato blight in relation to environmental conditions. Phytopath. 17: 746. (Abst.).
———— and F. S. Beecher. 1926. (2948)
Menace of western yellow tomato blight. Pacific Rural Press 111: 365, 371.
———— and ————. 1928. (2949)
The development of tomato yellows under different light conditions. Phytopath. 18: 950. (Abst.).
———— and H. A. Edson. 1921. (2950)
Blackleg potato tuber-rot under irrigation. Jour. Agr. Res. 22: 81-92.
Sharples, A. 1926. (2951)
"Sun-scorch" of exposed lateral roots of Hevea brasiliensis. Malayan Agr. Jour. 14: 116-118.
————. 1928. (2952)
Palm disease in Malaya. Malayan Agr. Jour. 16: 313-360.
————. 1929. (2953)
Division of Mycology. Annual Report for 1928. Malayan Agr. Jour. 17: 294-303.
————. 1930. (2954)
Division of Mycology. Annual Report for 1929. Dept. Agr. Straits Settlements and Fed. Malay States Tech. Repts. 1929, Bull. 3, 62-72.
Shaw, C. H. 1909. (2955)
The cause of timber line on mountains: the rôle of snow. Plant World 12: 169-181.
Shaw, F. J. F. 1922. (2956)
A diseased condition of rice. Agr. Jour. India 17: 152-154.
————. 1924. (2957)
Some factors in the incidence of plant diseases. Proc. Indian Sci. Cong., Calcutta, 10: 192.
Shaw, G. W. 1907. (2958)
Cereal investigations. Calif. Agr. Exp. Sta. Bull. 185, 261-310.
Shaw, H. B. 1910. (2959)
The curly-top of beets. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 181, 1-40.
Shear, C. L. 1913. (2960)
Some observations on phytopathological problems in Europe and America. Phytopath. 3: 77-87.
————. 1920. (2961)
Cranberry diseases and their control. U. S. Dept. Agr., Farmers' Bull. 1081, 1-22.
———— and H. F. Bain. 1929. (2962)
Life history and pathological aspects of Godronia cassandrae Peck (Fusicoccum putrefaciens Shear) on cranberry. Phytopath. 19: 1017-1024.
———— and G. F. Miles. 1908. (2963)
Texas root-rot of cotton: Field experiments in 1907. U. S. Dept. Agr., Bur. Pl. Indus. Circ. 9, 1-7.
———— and N. E. Stevens. 1913. (2964)
Cultural characters of the chestnut-blight fungus and its near relatives. U. S. Dept. Agr., Bur. Pl. Indus. Circ. 131, 1-18.

———, ———, and B. A. Rudolph. 1917. (2965)
Observations on the spoilage of cranberries due to lack of proper ventilation. Mass. Agr. Exp. Sta. Bull. 180, 235-239.
Sheldon, J. L. 1905. (2966)
The effect of different soils on the development of the carnation rust. Bot. Gaz. 40: 225-229.
Sherbakoff, C. D. 1917. (2967)
Black spot and brown spot of tomato. Fla. Agr. Exp. Sta. Ann. Rept., 1916, 90-91.
———. 1917. (2968)
Some important diseases of truck crops in Florida. Fla. Agr. Exp. Sta. Bull. 139, 191-277.
———. 1918. (2969)
Bacterial spot of pepper. Fla. Agr. Exp. Sta. Ann. Rept., 1917, 79-83.
———. 1927. (2971)
Plant pathology. Tenn. Agr. Exp. Sta. Ann. Rept. 39, 37-41.
Sherwood, E. C. 1923. (2972)
Hydrogen-ion concentration as related to the Fusarium wilt of tomato seedlings. Amer. Jour. Bot. 10: 537-553.
Shipley, A. 1887. (2973)
Onion disease at Bermuda. Agr. Sci. 1: 261-262. (Abst.).
Shoemaker, J. S. 1924. (2974)
Lime sulfur injury. Sci. Agr. 4: 180-184.
Shreve, F. 1914. (2975)
The rôle of winter temperatures in determining the distribution of plants. Amer. Jour. Bot. 1: 194-202.
Sibilia, C. 1928. (2976)
Ricerche sulle ruggini dei cereali. Boll. R. Staz. Pat. Veg. 8: 235-247.
Sideris, C. P. 1926. (2977)
Review of physiological and pathological studies on the pineapple plant. Hawaiian Pineapple Canners' Sta. Bull. 8, 1-10.
———. 1926. (2978)
Influence of environmental factors on the development of plant diseases. (Trans. title). Parnassos, New York, 1: 26-28.
———. 1928. (2979)
Similarity between physicochemical and biological reactions. Plant Physiol. 3: 79-83.
———. 1929. (2980)
The effect of the H-ion concentration of the culture solution on the behavior of Fusarium cromyophthoron and Allium cepa and the development of pink-root disease symptoms. Phytopath. 19: 233-268.
———. 1929. (2981)
Stem rot of pineapple plants. Phytopath. 19: 1146. (Abst.).
Sidorin, M. I. 1917. (2982)
On the assimilation of iron by plants. (Trans. title). Exp. Sta. Rec. 36: 633.
Sievers, F. J. 1924. (2983)
Crop injury resulting from magnesium oxide dust. Phytopath. 14: 108-113.
Simmonds, J. H. 1928. (2984)
Diseases of the banana in Queensland. Queensland Agr. Jour. 30: 438-454.
———. 1930. (2985)
Brown spot of the Passion Vine. Queensland Dept. Agr. and Stock, Div. Ent. and Plant Path. Bull. 6, 1-15.
Simmonds, P. M. 1928. (2986)
Seedling blight and foot-rots of oats caused by Fusarium culmorum (W. G. Sm.) Sacc. Canada Dept. Agr. Bull. 105, 1-43.
Simon, J. 1909. (2987)
Über die Einwirkung eines verschiedenen Kupfergehaltes im Boden auf das Wachstum der Pflanze. Landw. Vers. Sta. 71: 417-429.
Simpson, C. T. 1903. (2988)
Effects on vegetation of the hurricane in Florida. Plant World 6: 284-285.
Sirrine, F. A. 1900. (2989)
Spraying for asparagus rust. N. Y. (Geneva) Agr. Exp. Sta. Bull. 188, 233-276.
Sjögren, H. 1928. (2990)
Vad bör göras för att motverka rotbrand? Landtmannen 11: 659.

Skeen, J. R. 1929. (2991)
The tolerance limit of seedlings for aluminum and iron and the antagonism of calcium. Soil Sci. 27: 69-80.
Skinner, J. J. and F. E. Allison. 1923. (2992)
Influence of fertilizers containing borax on the growth and fruiting of cotton. Jour. Agr. Res. 23: 433-443.
————, B. E. Brown, and F. R. Reid. 1923. (2993)
The effect of borax on the growth and yield of crops. U. S. Dept. Agr., Dept. Bull. 1126, 1-30.
———— and J. B. Demaree. 1926. (2994)
Relation of soil conditions and orchard management to the rosette of pecan trees. U. S. Dept. Agr., Dept. Bull. 1378, 1-16.
———— and F. R. Reid. 1916. (2995)
The action of manganese under acid and neutral soil conditions. U. S. Dept. Agr., Dept. Bull. 441, 1-12.
———— and M. X. Sullivan. 1914. (2996)
The action of manganese in soils. U. S. Dept. Agr., Dept. Bull. 42, 1-32.
Skoric, V. 1926. (2997)
Causes of dying away of our oak-forests. (Jugoslavian). Ann. Exp. Forestry, Zagreb, 1: 234-246.
Slagg, C. M. 1926. (2998)
New and unusual diseases and injuries of tobacco. Sci. Agr. 6: 193-198.
Small, T. 1925. (2999)
"Rhizoctonia foot-rot" of the tomato. Exp. and Res. Sta., Cheshunt, Herts., Ann. Rept. 11, 76-85.
————. 1927. (3000)
A disease of the strawberry. Exp. and Res. Sta., Cheshunt, Herts., Ann. Rept. 12, 38-39.
————. 1927. (3001)
Rhizoctonia "foot-rot" of the tomato. Ann. Appl. Biol. 14: 290-295.
————. 1928. (3002)
A disease of the strawberry plant. Exp. and Res. Sta., Cheshunt, Herts., Ann. Rept. 13, 45-46.
————. 1928. (3003)
Tomato leaf-mould. Exp. and Res. Sta., Cheshunt, Herts., Ann. Rept. 13, 46-51.
————. 1928. (3004)
A disease of the strawberry plant. Jour. Pomol. and Hort. Sci. 7: 212-215.
————. 1929. (3005)
Tomato "mildew" or leaf-mould. Exp. and Res. Sta., Cheshunt, Herts., Ann. Rept. 14, 45-62.
————. 1930. (3006)
Tomato leaf mould. Exp. and Res. Sta., Cheshunt, Herts., Ann. Rept. 15, 43-51.
————. 1930. (3007)
The relation of atmospheric temperature and humidity to tomato leaf mould (Cladosporium fulvum). Ann. Appl. Biol. 17: 71-80.
Smiley, E. M. 1920. (3008)
The Phyllosticta blight of snapdragon. Phytopath. 10: 232-248.
Smith, A. J. M. 1926. (3009)
Bitter pit in apples: A review of the problem. Dept. Sci. and Indus. Res., Food Invest. Board Spec. Rept., Great Britain, 28, 1-24.
————. 1926. (3010)
The development of bitter pit in stored apples. Dept. Sci. and Indus. Res., Food Invest. Board Rept., Great Britain, 1925-1926, 59-61.
Smith, C. M. 1923. (3011)
Excretions from leaves as a factor in arsenical injury to plants. Jour. Agr. Res. 26: 191-194.
Smith, C. O. 1921. (3012)
Some studies relating to infection and resistance to walnut blight. Calif. Dept. Agr. Mo. Bull. 10, 367-371.
————. 1928. (3013)
Oleander bacteriosis in California. Phytopath. 18: 503-518.
———— and H. S. Fawcett. 1930. (3014)
A comparative study of the citrus blast bacterium and some other allied organisms. Jour. Agr. Res. 41: 233-246.

Smith, E. F. 1893. (3015)
Experiments with fertilizers for the prevention and cure of peach yellows. U. S. Dept. Agr., Div. of Veg. Path. Bull. 4, 1-197.
————. 1894. (3016)
Apple scab. Jour. Mycol. 7: 373-374.
————. 1895. (3017)
Bacillus tracheiphilus sp. nov., die Ursache des Verwelkens verschiedener Cucurbitaceen. Centbl. Bakt. 1: 364-373.
————. 1896. (3018)
A bacterial disease of the tomato, eggplant and Irish potato. U. S. Dept. Agr., Div. Veg. Physiol. and Path. Bull. 12, 1-26.
————. 1901. (3019)
The cultural characters of Pseudomonas hyacinthi, Ps. campestris, Ps. phaseoli, Ps. stewarti—four one-flagellate yellow bacteria on plants. U. S. Dept. Agr., Div. Veg. Physiol. and Path. Bull. 28, 1-153.
————. 1903. (3020)
Observations on a hitherto unreported bacterial disease, the cause of which enters the plant through ordinary stomata. Science 17: 456-457.
————. 1904. (3021)
Bacterial leaf spot diseases. Science 19: 417-418.
————. 1906. (3022)
Some observations on the biology of the olive-tubercle organism. Centbl. Bakt. 15: 198-200.
————. 1908. (3023)
Recent studies of the olive-tubercle organism. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 131, 25-43.
————. 1910. (3024)
Bacillus phytophthorus Appel. Science 31: 748-749.
————. 1910. (3025)
Bacterial blight of mulberry. Science 31: 792-794.
————. 1911. (3026)
Bacteria in relation to plant diseases 2: 1-368. Washington.
————. 1914. (3027)
Bacteria in relation to plant diseases 3: 1-307. Washington.
————. 1915. (3028)
A conspectus of bacterial diseases of plants. Ann. Mo. Bot. Gard. 2: 377-401.
————. 1920. (3029)
Bacterial diseases of plants. Washington.
————, N. A. Brown, and C. O. Townsend. 1911. (3030)
Crown-gall of plants: Its cause and remedy. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 213, 1-215.
———— and M. K. Bryan. 1915. (3031)
Angular leaf-spot of cucumbers. Jour. Agr. Res. 5: 465-475.
———— and F. Hedges. 1905. (3031a)
Burrill's bacterial disease of broom corn. Science 21: 502-503.
———— and A. J. Quirk. 1926. (3032)
A Begonia immune to crowngall: with observations on other immune or semi-immune plants. Phytopath. 16: 491-508.
———— and D. B. Swingle. 1904. (3033)
Dry rot of potatoes due to Fusarium oxysporum. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 55, 1-62.
Smith, E. H. 1907. (3034)
The blossom-end rot of tomatoes. Mass. Agr. Exp. Sta. Tech. Bull. 3, 1-19.
Smith, F. E. V. 1924. (3035)
Three diseases of cultivated mushrooms. Trans. Brit. Mycol. Soc. 10: 81-97.
Smith, F. F. 1926. (3035a)
Some cytological and physiological studies of mosaic diseases and leaf variegations. Ann. Mo. Bot. Gard. 13: 425-484.
Smith, J. H. 1923. (3036)
The killing of Botrytis spores by heat, with a note on the determination of temperature coefficients. Ann. Appl. Biol. 10: 335-347.
Smith, J. W. 1912. (3037)
Winter damage to peaches. U. S. Dept. Agr., Mo. Weather Rev. 40: 29-30.

———. 1920. (3038)
Damage to crops by weather. U. S. Dept. Agr., Mo. Weather Rev. 48: 446.
Smith, K. M. 1929. (3039)
Studies on potato virus diseases. IV. Further experiments with potato mosaic. Ann. Appl. Biol. 16: 1-33.
Smith, M. A. 1926. (3040)
Infection and spore germination studies with Puccinia sorghi. Phytopath. 16: 69. (Abst.).
Smith, R. E. 1904. (3041)
The water-relation of Puccinia asparagi. Bot. Gaz. 38: 19-43.
———. 1905. (3042)
Asparagus and asparagus rust in California. Calif. Agr. Exp. Sta. Bull. 165, 1-99.
———. 1914. (3043)
Plant pathology. "Physiological" plant diseases. Calif. Agr. Exp. Sta. Ann. Rept., 1913-1914, 139-142.
——— et al. 1912. (3044)
Walnut culture in California; walnut blight. Calif. Agr. Exp. Sta. Bull. 231, 119-398.
——— and O. Butler. 1908. (3045)
Gum disease of citrus trees in California. Calif. Agr. Exp. Sta. Bull. 200, 235-270.
——— and E. H. Smith. 1911. (3046)
California plant diseases. Calif. Agr. Exp. Sta. Bull. 218, 1039-1193.
Smith, R. G. 1926. (3047)
Storage scald on apples. Mich. State Hort. Soc. Ann. Rept. 55, 134-135.
Smith, T. O. and O. Butler. 1921. (3048)
Relation of potassium to growth in plants. Ann. Bot. 35: 189-225.
Smith, W. 1924. (3049)
Wind damage and its prevention. Calif. Citrogr. 9: 124, 144.
Snell, W. H. 1920. (3050)
Observations on the distance of spread of aeciospores and urediniospores of Cronartium ribicola. Phytopath. 10: 358-364.
———. 1922. (3051)
Studies of certain fungi of economic importance in the decay of building timbers, with special reference to the factors which favor their development and dissemination. U. S. Dept. Agr., Dept. Bull. 1053, 1-47.
———. 1923. (3052)
The effect of heat upon the mycelium of certain structural-timber-destroying fungi within wood. Amer. Jour. Bot. 10: 399-411.
———. 1928. (3053)
Blister rust in the Adirondacks. Jour. Forestry 26: 472-486.
———. 1929. (3054)
Some observations upon the white pine blister rust in New York. Phytopath. 19: 269-283.
——— and N. O. Howard. 1922. (3055)
Chemical injuries to white pines. Phytopath. 12: 59. (Abst.).
———, W. G. Hutchinson, and K. H. N. Newton. 1928. (3056)
Temperature and moisture relations of Fomes roseus and Trametes subrosea. Mycologia 20: 276-291.
Snowden, R. R. 1910. (3057)
The proportions of lime to magnesia in the soil, and their relation to nutrition in citrus trees. Proc. Fruit Growers' Conv. Calif. 37: 76-82.
Solereder, H. 1904. (3058)
Über Frostblasen und Frostflecken an Blättern. Centbl. Bakt. 12: 253-262.
Sommer, A. L. 1926. (3059)
Studies concerning the essential nature of aluminum and silicon for plant growth. Univ. Calif. Publ. Agr. Sci. 5: 57-81.
——— and H. Sorokin. 1928. (3060)
Effects of the absence of boron and of some other essential elements on the cell and tissue structure of the root tips of Pisum sativum. Plant Physiol. 3: 237-254.
Sorauer, P. 1891. (3061)
Über Frostchorf an Apfel—und Birnenstämmen. Zeitschr. Pflanzenkr. 1: 137-145.
———. 1893. (3062)
Einige Beobachtungen bei der Anwendung von Kupfermitteln gegen die Kartoffelkrankheit. Zeitschr. Pflanzenkr. 3: 32-36.

———. 1893. (3063)
Welche Werte hat Preussen im Jahre 1891 durch die Getreideroste verloren? Zeitschr. Pflanzenkr. 3: 185-190.
———. 1894. (3064)
Das Verhalten des Getreiderostes in trockenen und nassen Jahren. Zeitschr. Pflanzenkr. 4: 121-124.
———. 1895. (3065)
Über die Wurzelbräune der Cyclamen. Zeitschr. Pflanzenkr. 5: 18-20.
———. 1897. (3066)
Die Beschädigungen der Vegetation durch Asphaltdämpfe. Zeitschr. Pflanzenkr. 7: 10-20.
———. 1897. (3067)
XXVI. Zur Frage der Praedisposition. Zeitschr. Pflanzenkr. 7: 193-196.
———. 1897. (3068)
Feldversuche zwecks Feststellung einer Abhängigkeit der bakteriosen Gummosis der Zuckerrüben von Witterungs—und Bodeneinflüssen. Centbl. Bakt. 3: 535. (Abst.).
———. 1901. (3069)
Die Frostschäden en den Wintersaaten des Jahres 1901. Arb. Deut. Landw. Ges. 62: 204.
———. 1902. (3070)
Frostblasen an Blättern. Zeitschr. Pflanzenkr. 12: 44-47.
———. 1903. (3071)
Über Frostbeschädigungen am Getreide und damit in Verbindung stehende Pilzkrankheiten. Landw. Jahrb. 32: 1-68.
———. 1903. (3072)
Über die Praedisposition der Pflanzen für parasitäre Krankheiten. Arb. Deut. Landw. Ges. 82: 193-210.
———. 1904. (3073)
Beitrage zur anatomischen Analyse rauchbeschädigter Pflanzen. Landw. Jahrb. 33: 585-664.
———. 1906. (3074)
Experimentelle Studien über die mechanischen Wirkungen des Frostes bei Obst- und Waldbäumen. Landw. Jahrb. 35: 469-526.
———. 1907. (3075)
Blitzspuren und Frostspuren. Ber. Deutsch. Bot. Ges. 25: 157-164.
———. 1908. (3076)
Die Pflanzlichen Parasiten. pp. 517-527. Berlin.
———. 1909. (3077)
Vorarbeiten für eine internationale Statistik der Getreideroste. Zeitschr. Pflanzenkr. 19: 193-286.
———. 1909. (3078)
Pflanzenkrankheiten. Berlin.
———. 1910, 1911, 1912, 1914. (3079)
Untersuchungen über Gummifluss und Frostwirkungen bei Kirschbäumen. Landw. Jahrb. 39: 259-298; 41: 131-162; 42: 719-750; 46: 253-273.
———. 1911. (3080)
Tumor und Apfelbäumen. Zeitschr. Pflanzenkr. 21: 27-36.
———. 1914. (3081)
Altes und Neues über die mechanischen Frostbeschädigungen. Zeitschr. Pflanzenkr. 24: 65-76.
———. 1915. (3082)
Über Wirkungen von Leuchtgas auf die Pflanzen. Landw. Jahrb. 48: 279-312.
———. 1916. (3083)
Untersuchungen über Leuchtgasheschädigungen. Zeitschr. Pflanzenkr. 26: 129-183.
——— and E. Ramann. 1899. (3084)
Sogenannte unsichtbare Rauchbeschädigung. Bot. Centbl. 80: 50-56, 106-116, 156-168, 205-216, 251-262.
Sordina, J. 1918. (3085)
Influence de la sécheresse et du champignon Alternaria sur la pomme de terre. Prog. Agr. et Vitic. 69: 131-134.
Soursac, L. 1924. (3086)
Le rougeau et la sécheresse. Prog. Agr. et Vitic. 82: 116-118.

———. 1927. (3087)
Observations sur le court-noué de la vigne. Prog. Agr. et Vitic. 88: 573-575.
Späth and Meyer. 1873. (3088)
Beobachtungen über den Einfluss des Leuchtgases auf die Vegetation von Bäumen. Landw. Vers. Sta. 16: 336-341.
Spaulding, P. 1911. (3089)
The blister rust of white pine. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 206, 1-88.
———. 1914. (3090)
The damping-off of coniferous seedlings. Phytopath. 4: 73-87.
———. 1922. (3091)
Investigations of the white-pine blister rust. U. S. Dept. Agr., Dept. Bull. 957, 1-100.
———. 1925. (3092)
A partial explanation of the relative susceptibility of the white pines to the white pine blister rust (Cronartium ribicola Fischer). Phytopath. 15: 591-597.
———. 1929. (3093)
White pine blister rust: a comparison of European with North American conditions. U. S. Dept. Agr., Tech. Bull. 87, 1-59.
———. 1929. (3094)
Decay of slash of Northern White Pine in southern New England. U. S. Dept. Agr., Tech. Bull. 132, 1-20.
——— and A. Rathbun-Gravatt. 1925. (3095)
Conditions antecedent to the infection of white pines by Cronartium ribicola in the northeastern United States. Phytopath 15: 573-583.
——— and ———. 1926. (3096)
The influence of physical factors on the viability of sporidia of Cronartium ribicola Fisher. Jour. Agr. Res. 33: 397-433.
Spieckermann, A. 1910. (3097)
Über eine noch nicht beschriebene bakterielle Gefässerkrankung der Kartoffelpflanze. Centbl. Bakt. 27: 205-208.
Spierenburg, D. 1928. (3098)
Een geval van beschadiging aan rozen door bliksem. Tijdschr. Plantenziek. 34 (9): 239-242.
Spinks, G. T. 1913. (3099)
Factors affecting susceptibility to disease in plants. Jour. Agr. Sci. 5: 231-247.
Sprague, R. and F. D. Heald. 1927. (3100)
A witches' broom of the service berry. Trans. Amer. Microsp. Soc. 46: 219-238.
Staar, G. 1930. (3101)
Beitrage zur "indirect Diagnose" von Hagelfällen. Pflanzenbau 6: 317-328.
Stair, E. C. et al. 1928. (3102)
Forced ventilation as a means of controlling tomato Cladosporium and Septoria in hotbeds. Phytopath. 18: 1027-1029.
Stakman, E. C. 1913. (3103)
Spore germinations of cereal smuts. Minn. Agr. Exp. Sta. Bull. 133, 1-48.
———. 1914. (3104)
A study in cereal rusts. Minn. Agr. Exp. Sta. Bull. 138, 1-54.
———. 1919. (3105)
The black stem rust and the barberry. U. S. Dept. Agr. Yrbk., 1918, 75-100.
——— and O. S. Aamodt. 1922. (3106)
The effect of fertilizers on the development of stem rust of wheat. Phytopath. 12: 31. (Abst.).
——— and ———. 1924. (3107)
The effect of fertilizers on the development of stem rust of wheat. Jour. Agr. Res. 27: 341-379.
——— and E. B. Lambert. 1928. (3108)
The relation of temperature during the growing season in the spring wheat area of the United States to the occurrence of stem rust epidemics. Phytopath. 18: 369-374.
——— and M. N. Levine. 1919. (3109)
Effect of certain ecological factors on the morphology of the urediniospores of Puccinia graminis. Jour. Agr. Res. 16: 43-77.
——— and F. J. Piemeisel. 1917. (3110)
Biologic forms of Puccinia graminis on cereals and grasses. Jour. Agr. Res. 10: 429-495.

Staner, P. and G. Verplancke. 1930. (3111)
Étude d'un état pathologique du Sisal au Congo Belge. Bull. Inst. Roy. Colon. Belge 1: 279-300.
Stanford, H. R. 1930. (3112)
Warning on scaly bark treatments. Calif. Citrogr. 15: 119.
Stapledon, R. G. 1926. (3113)
Winter "burn" (or "browning") of herbage plants. Jour. Min. Agr. Great Britain 32: 1002-1015.
Stapp, C. 1928. (3114)
Die Schwarzbeinigkeit und Knollennassfäule der Kartoffel. Arb. Biol. Reich. Land- u. Forstw. 16: 643-703.
————. 1930. (3115)
Beiträge zur Kenntnis des Bacterium sepedonicum Spieckerm. et Kotth., des Erregers der "Bakterienringfäule" der Kartoffel. Zeitschr. Parasitenkunde 2: 756-823.
Starring, C. C. 1924. (3116)
Premature seeding of celery. Mont. Agr. Exp. Sta. Bull. 168, 1-16.
Staubacher. 1924. (3117)
Die Frostschäden im Forstbetrieb, deren Ursachen und Bekämpfung. Forstw. Centbl. 46: 1-13, 54-66, 98-111.
Steglich, B. 1892. (3117a)
Blitzschlag im Kartoffelacker. Jahrb. Deut. Landw. Ges. 7: 208.
————. 1901. (3118)
Untersuchungen und Beobachtungen über die Wirkung verschiedener salzlösungen auf Kulturpflanzen und Unkräuter. Zeitschr. Pflanzenkr. 11: 31-33.
————. 1903. (3119)
Versuch über die Wirkung des Kupfervitriols im Boden auf die Vegetation. Ber. Tät Landw. Abt., K. Vers. Sta. Pflanzenkult, Dresden, 4.
Stehlik, V. 1929. (3120)
Über Hagelschäden an Zuckt- und Industrierüben. Zeitschr. Zuckerindus. Cechoslovak. Repub. 53: 400-404.
Steinberg. 1929. (3121)
Beobachtungen über die Frostschutzwirkung von Kalisalzdüngung bei Wintergetreide. Ernähr. Pflanze 25: 449-450.
Steinberg, R. A. 1919. (3122)
A study of some factors influencing the stimulative action of zinc sulfate on the growth of Aspergillus niger. Bull. Torrey Bot. Club 46: 1-20.
————. 1919. (3123)
A study of some factors in the chemical stimulation of the growth of Aspergillus niger. Amer. Jour. Bot. 6: 330-372.
Stell, F. 1927. (3124)
Plant pathology. Trinidad and Tobago Admin. Rept. Dept. Agr., 1926, 35-36.
Stender, A. 1902. (3125)
Untersuchungen über die Unkrautvertilgung durch Düngesalze. Diss. Rostock.
Stevens, F. L. 1898. (3126)
The effect of aqueous solutions upon the germination of fungous spores. Bot. Gaz. 26: 377-406.
————. 1917. (3127)
Problems of plant pathology. Bot. Gaz. 63: 297-306.
———— and J. G. Hall. 1909. (3128)
Variation of fungi due to environment. Bot. Gaz. 48: 1-30.
———— and ————. 1911. (3129)
A serious lettuce disease and a method of control. N. C. Agr. Exp. Sta. Tech. Bull. 8, 87-145.
Stevens, H. E. 1918. (3130)
Melanose II. Fla. Agr. Exp. Sta. Bull. 145, 101-116.
————. 1918. (3131)
Florida citrus diseases. Fla. Agr. Exp. Sta. Bull. 150, 14-110.
————. 1918. (3132)
Lightning injury to citrus trees in Florida. Phytopath. 8: 283-285.
Stevens, N. E. 1916. (3133)
A method for studying the humidity relations of fungi in culture. Phytopath. 6: 428-432.

———. 1917. (3134)
The influence of certain climatic factors on the development of Endothia parasitica (Murr.) And. Amer. Jour. Bot. 4: 1-32.
———. 1917. (3135)
The influence of temperature on the growth of Endothia parasitica. Amer. Jour. Bot. 4: 112-118.
———. 1917. (3136)
Some factors influencing the prevalence of Endothia gyrosa. Bull. Torrey Bot. Club 44: 127-144.
———. 1917. (3137)
Temperatures of the cranberry regions of the United States in relation to the growth of certain fungi. Jour. Agr. Res. 11: 521-529.
———. 1922. (3138)
Environmental temperatures of fungi in nature. Amer. Jour. Bot. 9: 385-390.
——— and H. F. Bain. 1928. (3139)
Storage rots of cranberries in the 1927 crop. Phytopath. 18: 809-814.
——— and R. B. Wilcox. 1917. (3140)
Rhizopus rot of strawberries in transit. U. S. Dept. Agr., Dept. Bull. 531, 1-22.
Stevenson, J. A. 1917. (3141)
Lightning injury to sugar cane. Phytopath. 7: 317-318.
———. 1918. (3142)
Citrus diseases in Porto Rico. Jour. Dept. Agr. Porto Rico 2: 43-123.
Stewart, F. C. 1894. (3143)
Effects of heat upon germination of corn and smut. Proc. Iowa Acad. Sci. 2: 174-178.
———. 1896. (3144)
Prevention of cabbage club-root. N. Y. (Geneva) Agr. Exp. Sta. Ann. Rept. 14, 525-529.
———. 1896. (3145)
Combating carnation rust. N. Y. (Geneva) Agr. Exp. Sta. Bull. 100, 36-68.
———. 1897. (3146)
Experiments and observations on some diseases of plants. N. Y. (Geneva) Agr. Exp. Sta. Bull. 138, 627-644.
———. 1899. (3147)
Leaf scorch of the sugar beet, cherry, cauliflower and maple. N. Y. (Geneva) Agr. Exp. Sta. Bull. 162, 165-178.
——— and F. H. Blodgett. 1899. (3148)
A fruit-disease survey of the Hudson valley in 1899. N. Y. (Geneva) Agr. Exp. Sta. Bull. 167, 275-308.
——— and H. J. Eustace. 1902. (3149)
Two unusual troubles of apple foliage. N. Y. (Geneva) Agr. Exp. Sta. Bull. 220, 217-233.
———, G. T. French, and J. K. Wilson. 1908. (3150)
Troubles of alfalfa in New York. N. Y. (Geneva) Agr. Exp. Sta. Bull. 305, 331-416.
——— and ———. 1912. (3151)
A comparative test of lime-sulphur, lead benzoate and bordeaux mixture for spraying potatoes. N. Y. (Geneva) Agr. Exp. Sta. Bull. 347, 1-14.
——— and A. J. Mix. 1917. (3152)
Blackheart and the aeration of potatoes in storage. N. Y. (Geneva) Agr. Exp. Sta. Bull. 436, 319-362.
———, F. M. Rolfs, and F. H. Hall. 1900. (3153)
A fruit-disease survey of Western New York in 1900. N. Y. (Geneva) Agr. Exp. Sta. Bull. 191, 291-331.
Stewart, G. and D. W. Pittman. 1928. (3154)
Predisposition of sugar-beets to late rootrot. Phytopath. 18: 263-276.
Stewart, J. P. 1910. (3155)
A new disease of apples. Pa. State College Ann. Rept., 1909-1910, 267-268.
Stewart, V. B. 1915. (3156)
Notes on the fire blight disease. Phytopath. 5: 327-334.
Stiles, W. 1930. (3157)
On the cause of cold death of plants. Protoplasma 9: 459-468.
Stillinger, C. R. 1929. (3158)
Dosyscypha fusco-sanguinea Rehm on western white pine, Pinus monticola Dougl. Phytopath. 19: 575-584.
Stockdale, F. A. 1916. (3159)
Phytopathology. Dept. Agr. Mauritius. Ann. Rept., 1915, 14-16.

Stockhardt, A. 1871. (3160)
Untersuchungen über die schädliche Einwirkung des Hütten- u. Steinkohlenrauches auf das Wachstum der Pflanzen, insbesondere der Fichte und Tanne. Tharander Forstl. Jahrb. 21: 218-254.
Stoklasa, J. 1918. (3161)
Über den Einfluss des Aluminumions auf die Keimung des Samens und die Entwicklung der Pflanzen. Biochem. Zeitschr. 91: 137-223.
————. 1922. (3162)
Über die Verbreitung des Aluminums in der Natur und seine Bedeutung beim Bau- und Betreibsstoffwechsel der Pflanzen. Jena.
————. 1923. (3163)
Die Beschädigungen der Vegetation durch Rauchgase und Fabrikexhalationen. Berlin.
———— and A. Ernest. 1905. (3164)
Über den Ursprung, die Menge und die Bedeutung des Kohlendioxyds im Boden. Centbl. Bakt. 14: 723-736.
Stone, G. E. 1903. (3165)
Injuries to shade trees from electricity. Mass. (Hatch) Agr. Exp. Sta. Bull. 91, 1-21.
————. 1905. (3166)
Some important literature relating to diseases, etc., of crops not generally believed to be caused by fungi or insects. Mass. (Hatch) Agr. Exp. Sta. Ann. Rept. 17, 31-34.
————. 1907. (3167)
The relation of cultural conditions to plant diseases. U. S. Dept. Agr., Dept. Bull. 196, 110-112.
————. 1908. (3168)
Sun scorch of pine. Mass. Agr. Exp. Sta. Ann. Rept. 20, 125-126.
————. 1908. (3169)
Effects of gas, electricity, etc. on trees. Mass. Agr. Exp. Sta. Bull. 125, 37-48.
————. 1910. (3170)
Malnutrition. Mass. Agr. Exp. Sta. Ann. Rept. 22 (1), 154-162.
————. 1910. (3171)
Sun scorch of the pine. Mass. Agr. Exp. Sta. Ann. Rept. 22 (2), 65-69.
————. 1911. (3172)
Shade tree troubles. Mass. Agr. Exp. Sta. Ann. Rept. 23 (2), 52-55.
————. 1911. (3173)
Tomato diseases. Mass. Agr. Exp. Sta. Bull. 138, 1-32.
————. 1912. (3174)
Frost cracks. Mass. Agr. Exp. Sta. Ann. Rept 24 (1), 110-114.
————. 1913. (3175)
Effects of illuminating gas on vegetation. Mass. Agr. Exp. Sta. Ann. Rept. 25 (1), 45-60.
————. 1913. (3176)
Shade-tree troubles. Mass. Agr. Exp. Sta. Ann. Rept. 25 (1), 73-83.
————. 1914. (3177)
Electrical injury to trees. Mass. Agr. Exp. Sta. Bull. 156, 1-19.
————. 1916. (3178)
Shade trees, characteristics, adaptation, diseases and care. Mass. Agr. Exp. Sta. Bull. 170, 204-208, 220-228.
————. 1916. (3179)
Injury to vegetation resulting from climatic conditions. Jour. N. Y. Bot. Gard. 17: 173-179.
———— and N. F. Monahan. 1906. (3180)
Report of the botanist. Mass. Agr. Exp. Sta. Ann. Rept. 18, 115-148.
———— and R. E. Smith. 1897. (3181)
Physiological disorders. Mass. (Hatch) Agr. Exp. Sta. Ann. Rept. 9, 81-84.
———— and ————. 1899. (3182)
Some difficulties which city shade trees have to contend with. Mass. (Hatch) Agr. Exp Sta. Ann. Rept. 11, 163-167.
———— and ————. 1899. (3183)
The asparagus rust in Massachusetts. Mass. (Hatch) Agr. Exp. Sta. Bull. 61, 1-20.
———— and ————. 1900. (3184)
The relationship existing between the asparagus rust and the physical properties of the soil. Mass. (Hatch) Agr. Exp. Sta. Ann. Rept. 12, 61-73.
———— and ————. 1900. (3185)
The rotting of greenhouse lettuce. Mass. (Hatch) Agr. Exp. Sta. Bull. 69, 1-40.

——— and ———. 1902. (3186)
Report of the botanists. Mass. (Hatch) Agr. Exp. Sta. Ann. Rept. 14, 69-73.
Stone, R. E. 1919. (3187)
Kerosene injury to shade trees. Phytopath. 9: 476-477.
——— et al. 1917. (3188)
Experiments on the cause and means of control of a peculiar disease of winter tomatoes. Ont. Agr. Coll. and Exp. Farm Ann. Rept. 43, 30.
Störmer, K. 1909. (3189)
Über einige Beziehungen zwischen Witterungsverhaltnissen und dem Auftreten von Pflanzenkrankheiten. Landw. Wachenschr., Sachsen, 11: 202-203, 210-212.
———. 1910. (3190)
Über einige im Jahre 1909 aufgetretene Pflanzenkrankheiten von besonderer Bedeutung. Landw. Wachenschr., Sachsen, 12: 19-21, 27-29.
———. 1910. (3191)
Die Krankheiten der Rüben im vergangenen Jahre. Bl. Zuckerrubenbau 17: 88-93.
——— and O. Morgenthaler. 1911. (3192)
Das Auftreten der Blattrollkrankheit der Kartoffeln in der Provinz Sachsen im Jahre 1910. Naturw. Zeitschr. Forst. u. Landw. 9: 521-551.
Storp, F. 1883. (3193)
Über den Einfluss von Kochsalz—und Zinksulfathaltigem Wasser auf Boden und Pflanzen. Landw. Jahrb. 12: 795-837.
Stoughton, R. H. 1928. (3194)
The influence of environmental conditions on the development of the angular leaf-spot disease of cotton. Ann. Appl. Biol. 15: 333-341.
———. 1930. (3195)
Angular leaf-spot disease of cotton. Nature 125: 350-351.
———. 1930. (3196)
The influence of environmental conditions on the development of the angular leaf-spot disease of cotton. II. The influence of soil temperature on primary and secondary infection of seedlings. Ann. Appl. Biol. 17: 493-503.
Stoughton-Harris, R. H. 1926. (3197)
The influence of the reaction and the concentration of the medium on the growth of Phytophthora faberi in artificial culture. Rubber Res. Scheme, Ceylon Quart. Circ. 3, 5-6.
Stout, G. L. 1930. (3198)
Severe hail injury to trees and shrubs. Science 71: 187-188.
Stover, W. G. 1922. (3199)
The relation of soil temperature to the development of the seedling blight of corn caused by Helminthosporium sp. Phytopath. 12: 30. (Abst.).
Straib, W. 1927. (3200)
Untersuchungen über die Ursache verschiedener Sortenanfälligkeit des Weizens gegen Steinbrand. Pflanzenbau 4: 129-136.
———. 1928. (3201)
Versuche mit Düngemitteln zur Steinbrandbekämpfung des Weizens. Fortschr. Landw. 3: 110-114.
Stranák, F. 1911. (3202)
Über die mechanische Bestimmung des Widerstandes der Getreidesorten gegen Pflanzenkrankheiten und Pflanzenschädlings. Deutsche Landw. Presse 38: 209-210.
———. 1915. (3203)
Zur Frage der Bekämpfung des Gelbrostes. Deutsche Landw. Presse 42: 379.
Strong, F. C. 1928. (3204)
Fungous diseases attack trees in wet seasons. Mich. Agr. Exp. Sta. Quart. Bull. 11: 13-17.
Stuart, W. 1905. (3205)
On the winter injury of apple trees. Vt. Agr. Exp. Sta. Ann. Rept., 1904-1905, 299-300
———. 1906. (3206)
Disease resistance of potatoes. Vt. Agr. Exp. Sta. Bull. 122, 105-136.
Stucky, H. P. 1915. (3207)
Tomatoes. Ga. Agr. Exp. Sta. Bull. 112, 211-248.
——— and J. C. Temple. 1911. (3208)
Blossom-end rot of tomatoes. Ga. Agr. Exp. Sta. Bull. 96. 69-91.
Studhalter, R. A. and F. D. Heald. 1915. (3209)
The persistence of viable pycnospores of the chestnut blight fungus on normal bark below lesions. Amer. Jour. Bot. 2: 162-168.

Sturgis, W. C. 1895. (3210)
Notes on injuries due to physiological causes. Conn. Agr. Exp. Sta. Ann. Rept. 19, 189-190.
————. 1896. (3211)
On a leaf-blight of melons. Conn. Agr. Exp. Sta. Ann. Rept. 20, 267-268.
————. 1896. (3212)
Notes on the so-called "shelling" of grapes. Conn. Agr. Exp. Sta. Ann. Rept. 20, 278-281.
————. 1898. (3213)
On the prevention of leaf-blight and leaf-spot of celery. Conn. Agr. Exp. Sta. Ann. Rept., 1897, 169-171.
————. 1898. (3214)
Preliminary notes on two diseases of tobacco. Conn. Agr. Exp. Sta. Ann. Rept. 22, 242-260.
————. 1898. (3215)
On some aspects of vegetable pathology and the conditions which influence the dissemination of plant diseases. Bot. Gaz. 25: 187-194.
————. 1899. (3216)
On the effects, on tobacco, of shading and the application of lime. Conn. Agr. Exp. Sta. Ann. Rept. 23, 252-261.
————. 1900. (3217)
Peach-foliage and fungicides. Conn. Agr. Exp. Sta. Ann. Rept. 24, 219-254.
Stutzer, A. 1917. (3218)
Beziehung zwischen der Reaktion des Bodens, dem Auftreten von Pflanzenkrankheiten und der Entwicklung gewisser Pflanzen. Fuhling's Landw. Zeit. 66: 130-132.
————. 1922. (3219)
Die Bedeutung des Kalks als Schutzmittel gegen Parasiten und gegen Erreger von nichtparasitären Pflanzenkrankheiten. Deut. Obstbauz. 68: 206-207.
Sueda, H. 1929. (3220)
Studies on the rice blast disease. Jap. Jour. Bot. 4: 73. (Abst.).
Summers, F. 1923. (3221)
The physiology of leaf scorch. Agr. and Hort. Res. Sta., Long Ashton, Bristol, Ann. Rept., 1922, 77-83.
————. 1923. (3222)
The physiology of leaf scorch. Jour. Bath and W. and S. Counties Soc. 17: 123-132.
Sundararaman, S. 1929. (3223)
Administration report of the government mycologist, Coimbatore, for 1928-29. Rept. Dept. Agr., Madras Presidency, 1928-1929, 1-27.
Surr, G. J. and L. D. Batchelor. 1926. (3224)
Citrus culture in central California. Calif. Agr. Exp. Sta. Bull. 405, 1-23.
Suzuki, H. 1930. (3225)
Experimental studies on the possibility of primary infection of Piricularia oryzae and Ophiobolus miyabeanus internal on rice seeds. Ann. Phytopath. Soc. Japan 2: 245-275.
Swain, R. E. and W. D. Harkins. 1908. (3226)
Arsenic in vegetation exposed to smelter smoke. Jour. Amer. Chem. Soc. 30: 915-928.
Swanback, T. R. 1927. (3227)
The effect of boric acid on the growth of tobacco plants in nutrient solutions. Plant Physiol. 2: 475-486.
Swingle, D. B. and H. E. Morris. 1911. (3228)
A preliminary report on the effects of arsenical compounds upon apple trees. Phytopath. 1: 79-93.
———— and ————. 1917. (3229)
Arsenical injury through the bark of fruit trees. Jour. Agr. Res. 8: 283-318.
———— and ————. 1921. (3230)
The brown bark spot of fruit trees. Mont. Agr. Exp. Sta. Bull. 146, 1-22.
————, ————, and E. Burke. 1923. (3231)
Injury to foliage by arsenical spray mixtures. Jour. Agr. Res. 24: 501-537.
Swingle, H. S. 1929. (3232)
Composition of commercial acid lead arsenate and its relation to arsenical injury. Jour. Agr. Res. 39: 393-401.
Swingle, W. T. 1895. (3233)
The grain smuts: their causes and prevention. U. S. Dept. Agr. Yrbk., 1894, 409-420.

———, T. R. Robinson, and E. May. 1928. (3234)
Experiments on boron tolerance of citrus plants and their wild relatives. Amer. Jour. Bot. 15: 616-617. (Abst.).
——— and H. F. Weber. 1896. (3235)
The principal diseases of citrus fruits in Florida. U. S. Dept. Agr., Div. Veg. Physiol. and Path. Bull. 8, 1-40.
Sylvén, N. 1918. (3236)
Års knockesjuka norra Västergotland. Meddel. Stat. Skogsförsöksanst. 15: 192-204.
Taboureau, L. 1917. (3237)
Sur le traitement du mildiou. Prog. Agr. et Vitic. 67: 255-258.
Tacke, B. and T. Arnd. 1928. (3238)
Die schädliche Bodenazidität und ihre Bestimmung. Zeitschr. Pflanzenernähr. u. Düng., Abt. A, 12: 362-390.
Taft, L. R. 1898. (3239)
Spraying calendar for 1898. Mich. Agr. Exp. Sta. Bull. 155, 291-307.
——— and G. C. Davis. 1895. (3240)
The pests of the orchard and garden. Mich. Agr. Exp. Sta. Bull. 121, 1-80.
Takahashi, T. 1927. (3241)
A Sclerotium disease of larkspur. Phytopath. 17: 239-245.
Takeuchi, H. 1929. (3242)
Penicillium rots of citrus fruits. Bull. Sci. Fakultato Terkultura, Kjusu Imp. Univ., 3: 333-349.
Takimoto, K. 1920. (3243)
On a bacterial leaf-spot of Antirrhinum majus L. (Japanese). Bot. Mag. (Tokyo) 34: 253-257.
Tarr, L. W. and S. C. Noble. 1922. (3244)
The effect of hydrogen-ion concentration upon the growth of seedlings. Del. Agr. Exp Sta. Bull. 131, 1-52.
Taslim, M. 1928. (3245)
Stem-rot of Berseem caused by Rhizoctonia solani Kühn. Agr. Res. Inst., Pusa, Bull. 180, 1-8.
Taubenhaus, J. J. 1916. (3246)
Soilstain, or scurf, of the sweet potato. Jour. Agr. Res. 5: 995-1001.
———. 1919. (3247)
Recent studies on Sclerotium rolfsii Sacc. Jour. Agr. Res. 18: 127-138.
———. 1926. (3248)
Plant pathology and physiology. Texas Agr. Exp. Sta. Ann. Rept. 39, 45-85.
———. 1926. (3250)
Studies of a new Fusarium wilt of spinach in Texas. Texas Agr. Exp. Sta. Bull. 343, 1-23.
——— et al. 1925. (3251)
Plant pathology and physiology. Texas Agr. Exp. Sta. Ann. Rept. 38, 32-34.
——— et al. 1927. (3252)
Plant pathology and physiology. Texas Agr. Exp. Sta. Ann. Rept. 40, 59-63.
——— and B. F. Dana. 1928. (3253)
The influence of moisture and temperature on cotton root rot. Texas Agr. Exp. Sta. Bull. 386, 1-23.
———, W. N. Ezekiel, and D. T. Killough. 1928. (3254)
Relation of cotton root rot and Fusarium wilt to the acidity and alkalinity of the soil. Texas Agr. Exp. Sta. Bull. 389, 1-19.
——— and ———. 1930. (3255)
Recent studies on Phymatotrichum root-rot. Amer. Jour. Bot. 17: 554-571.
——— and F. W. Mally. 1921. (3256)
Pink root disease of onions and its control in Texas. Texas Agr. Exp. Sta. Bull. 273, 1-42.
Taylor, A. D. 1908. (3257)
Street trees, their care and preservation. N. Y. (Cornell) Agr. Exp. Sta. Bull. 256, 305-345.
Taylor, E. P. and G. J. Downing. 1917. (3258)
Experiments in the irrigation of apple orchards. Idaho Agr. Exp. Sta. Bull. 99, 1-48.
Taylor, M. W. 1917. (3259)
Preliminary report on the vertical distribution of Fusarium in soil. Phytopath. 7: 374-378.

Taylor, N. 1916. (3260)
What the winter of 1916 did to the Garden evergreen collection. Brooklyn Bot. Gard Rec. 5: 140-142.
————. 1918. (3261)
Effects of the severe winter on the woody plants in the Garden. Brooklyn Bot. Gard Rec. 7: 83-87.
————. 1920. (3262)
Effects of winter of 1919-1920 on the woody plants in the Garden. Brooklyn Bot. Gard. Rec. 9: 121-123.
————. 1925. (3264)
Some outstanding features of the plant disease situation in Illinois during 1923. Trans. Ill. Acad. Sci. 17: 88-93.
————. 1926. (3265)
The field survey as a basis for the phenological interpretation of the plant disease epidemic. Phytopath. 16: 63. (Abst.).
————. 1926. (3266)
The plant disease situation in Illinois during 1925. Trans. Ill. Acad. Sci. 19: 144-150.
————. 1927. (3267)
Epidemic diseases of grain crops in Illinois, 1922-1926. Ill. Nat. Hist. Survey Bull. 17, 1-96.
———— and P. A. Young. 1924. (3268)
Notes on the climatic conditions influencing the 1923 epidemic of stem rust on wheat in Illinois. Phytopath. 14: 94-100.
Temple, C. E. 1918. (3269)
Report of the state plant pathologist. Rept. Md. Agr. Soc. 2: 161-169.
Temple, W. 1927. (3270)
Die Kräuselkrankheit des Pfirsichs (Exoascus deformans Berk.) und ihre Bekämpfung. Die Kranke Pflanze 4: 91-95.
————. 1929. (3271)
Flusssäureschäden an Kirschfrüchten. Die Kranke Pflanze 6: 213-214.
Teng, S. C. 1929. (3272)
Rhizoctonosis of lobelia. Phytopath. 19: 585-588.
Teodoro, N. G. 1923. (3273)
A study of a Macrosporium disease of onions. Philippine Agr. Rev. 16: 233-275.
———— and J. R. Bogayong. 1926. (3274)
Rice diseases and their control. Philippine Agr. Rev. 19: 237-241.
Terényi, A. 1927. (3275)
Die Wirkung des Wassers und Bodens bei der Kupfervitriolbeize des Weizens. Fortschr. Landw. 2: 517-519.
Teterevnikova-Babayan, D. N. 1930. (3276)
The problem of the causation of scorch injury by fungicides. (Trans. title). Morbi Plantarum, Leningrad, 19: 97-122.
Thayer, P. 1916. (3277)
Winterkilling of peach buds. Ohio Agr. Exp. Sta. Mo. Bull. 1 (10): 311-312.
Thiele, R. 1896. (3278)
Temperaturgrenzen der Schimmelpilze. Diss. Leipzig. 37 pp.
Thillard, R. 1921. (3279)
La culture de tabac de Sumatra au Cameroun. L'Agronomie Coloniale 6: 185-194, 227-229.
Thomas, H. E. 1921. (3280)
The relation of the health of the host and other factors to infection of Apium graveolens by Septoria apii. Bull. Torrey Bot. Club 48: 1-29.
————. 1925. (3281)
Root and crown rot of apple. Proc. N. Y. State Hort. Soc. 70: 171.
————. 1926. (3282)
Root and crown injury of apple trees. N. Y. (Cornell) Agr. Exp. Sta. Bull. 488, 1-9.
———— and A. B. Burrell. 1929. (3283)
A twig canker of apple caused by Nectoria cinnabarina. Phytopath. 19: 1125-1128.
———— and A. S. Muller. 1929. (3284)
Some factors which influence the infection of Apium graveolens L. by Septoria apii Rostr. Amer. Jour. Bot. 16: 789-798.
Thomas, R. C. 1922. (3285)
A bacterial rosette disease of lettuce. Ohio Agr. Exp. Sta. Bull. 359, 197-214.

Thomas, R. P. et al. 1929. (3286)
Fertilizers lessen injury from tobacco brown root rot. Wis. Agr. Exp. Sta. Bull. 405, 111-112.
Thompson, A. 1926. (3287)
A disease of the Betel vine caused by a species of Phytophthora. Malayan Agr. Jour. 14: 1-6.
Thompson, H. C. 1923. (3288)
Factors influencing early development of seed stalk of celery. Proc. Amer. Soc. Hort. Sci. 20: 219-224.
Thompson, R. C. 1926. (3289)
Tipburn of lettuce. Colo. Agr. Exp. Sta. Bull. 311, 1-31.
Thorne, C. E. 1907. (3290)
Yellow leaf in oats. Ohio Agr. Exp. Sta. Press Bull. 286.
Tiedjens, V. A. 1925. (3291)
Yellow pickle in greenhouse cucumbers. Mass. Agr. Exp. Sta. Bull. 225, 1-8.
Tiemann, A. 1926. (3292)
Untersuchungen über die Empfanglichkeit des Sommereweizens für Ustilago tritici und den Einfluss der äusseren Bedingungen dieser Krankheit. Fortschr. Landw. 1: 292-293. (Abst.).
Tilford, P. E. 1926. (3293)
Potato leaf roll in Ohio. Ohio Agr. Exp. Sta. Bimo. Bull. 11 (2), 55-59.
————. 1930. (3294)
A Rhizoctonia disease of sweet alyssum. Phytopath. 20: 587-590.
Tiller, L. W. 1929. (3295)
Cold storage of fruit. Investigations conducted with apples during 1927-1928. New Zealand Dept. Sci. and Indus. Res. Bull. 16, 1-23.
Tims, E. C. 1926. (3296)
On the nature of resistance to cabbage yellows. Jour. Agr. Res. 32: 183-199.
————. 1926. (3297)
The influence of soil temperature and soil moisture on the development of yellows in cabbage seedlings. Jour. Agr. Res. 33: 971-992.
———— and J. C. Walker. 1924. (3298)
A Fusarium bulb rot of onion. Phytopath. 14: 26-27. (Abst.).
Tinker, M. A. H. 1925. (3299)
The effect of length of day upon the growth and reproduction of some economic plants. Ann. Bot. 39: 721-754.
Tiraboschi, C. 1909. (3300)
Attenuazione del portere germinativo delle spore di Penicillium glaucum mantenuto a 37° C. Centbl. Bakt. 22: 463. (Abst.).
Tischler, G. 1911. (3301)
Untersuchungen über die Bieinflussung der Euphorbia cyparissias durch Uromyces pisi. Flora 104: 1-64.
Tisdale, W. B. 1920. (3302)
The relation of soil temperature and soil moisture to the occurrence of cabbage yellows Phytopath. 10: 63. (Abst.).
————. 1920. (3303)
Iris leaf spot caused by Didymellina iridis. Phytopath. 10: 148-163.
————. 1923. (3304)
Report of the Tobacco Experiment Station. Fla. Agr. Exp. Sta Ann. Rept., 125-140.
————. 1923. (3305)
Influence of soil temperature and soil moisture upon the Fusarium disease in cabbage seedlings. Jour. Agr. Res. 24: 55-86.
————. 1924. (3306)
Report of the Tobacco Experiment Station. Fla. Agr. Exp. Sta. Ann. Rept., 121-129.
————. 1929. (3307)
Plant pathology. Fla. Agr. Exp. Sta. Ann. Rept., 68-81.
———— and J. G. Kelley. 1926. (3308)
A Phytophthora disease of tobacco. Fla. Agr. Exp. Sta. Bull. 179, 159-219.
———— and ————. 1926. (3309)
Stem injury of tobacco. Fla. Agr. Exp. Sta. Bull 182, 279-286.
———— and M. M. Williamson. 1923. (3310)
Bacterial spot of lima bean. Jour. Agr. Res. 25: 141-153.

Tisdale, W. H. 1916. (3311)
A Melanconium parasitic on the tomato. Phytopath. 6: 390-394.
————. 1916. (3312)
Relation of soil temperature to infection of flax by Fusarium lini. Phytopath. 6: 412-413.
————. 1917. (3313)
Relation of temperature to the growth and infecting power of Fusarium lini. Phytopath. 7: 356-360.
————. 1919. (3314)
The Physoderma disease of corn. Phytopath. 9: 51-52. (Abst.).
————. 1919. (3315)
Physoderma disease of corn. Jour. Agr. Res. 16: 137-154.
————. 1920. (3316)
The brown-spot of corn with suggestions for its control. U. S. Dept. Agr., Farmers' Bull. 1124, 1-9.
———— and J. M. Jenkins. 1921. (3317)
Straighthead of rice and its control. U. S. Dept. Agr., Farmers' Bull. 1212, 1-16.
———— and C. O. Johnston. 1926. (3318)
A study of smut resistance in corn seedlings grown in the greenhouse. Jour. Agr. Res. 32: 649-668.
————, C. E. Leighty, and E. G. Boerner. 1927. (3319)
A study of the distribution of Tilletia tritici and T. laevis in 1926. Phytopath. 17: 167-174.
Tits, D. 1922. (3320)
Les excitants de la germination d'un champignon: Phycomyces nitens. Bull. Cl. Sci. Acad. Roy. Belg. 8: 219-227.
Tochinai, Y. 1921. (3321)
Studies on the physiology of Fusarium lini. Trans. Sapporo Nat. Hist. Soc. 8: 19-44.
————. 1925. (3322)
Comparative studies on the physiology of Fusarium lini and Colletotrichum lini. Jour. Coll. Agr., Hokkaido Imp. Univ. 14: 171-236.
———— and S. Enomoto. 1924. (3323)
On the dry heat sterilization of flax seeds for the prevention of its anthracnose. Jour. Soc. Agr. and For. Japan 15 (66): 225-234.
Togashi, K. 1928. (3324)
On the development of two races of Valsa in relation to the hydrogen-ion concentration of peach trees. (Japanese). Agr. and Hort. 3: 893-902.
————. 1929. (3325)
Studies on the Valsa diseases of fruit and forest trees. Ann. Rept. Saito Ho-on Kai Japan 4: 88-90.
————. 1930. (3326)
Comparative studies on the physiology of Leucostoma leucostoma and Valsa japonica. Bull. Imp. Coll. Agr. and For. Japan. 15: 1-76.
Tomkins, R. G. 1928. (3327)
The water relationships of fruit-rotting fungi. Dept. Sci. Ind. Res., Food Invest. Bd. Rept., Great Britain, 1927, 36-38.
————. 1929. (3328)
Studies of the growth of moulds. I. Proc. Roy. Soc., London, 105B: 375-401.
Tompkins, C. M. 1925. (3329)
Effect of intermittent temperatures on potato mosaic. Phytopath. 15: 46. (Abst.).
————. 1926. (3330)
Influence of the environment on potato mosaic symptoms. Phytopath. 16: 581-609.
Toro, R. A. 1925. (3331)
La influencia del ambiente en la protección de las plantas contra enfermedades. Porto Rico Insul. Exp. Sta. Circ. 90, 1-10.
Tottingham, W. E. and A. J. Beck. 1916. (3332)
Antagonism between manganese and iron in the growth of wheat. Plant World 19: 359-370.
Toumey, J. W. 1898. (3333)
Sun-burn. Ariz. Agr. Exp. Sta. Ann. Rept. 9, 163-165.
————. 1921. (3334)
Damage to forests and other vegetation by smoke, ash and fumes from manufacturing plants in Naugatuck Valley, Connecticut. Jour. Forestry 19: 367-373.

Townsend, C. O. 1901. (3335)
Notes on celery blight. Md. Agr. Exp. Sta. Bull. 74, 167-182.
————. 1904. (3336)
A soft rot of the calla lily. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 60, 1-44.
————. 1914. (3337)
Leaf spot, a disease of the sugar beet. U. S. Dept. Agr., Farmers' Bull. 618, 1-18.
Traaen, A. E. 1914. (3338)
Untersuchungen über Bodenpilze aus Norwegen. Nyt. Mag. Naturvidensk. 52: 19-121.
————. 1925. (3339)
Über den Einfluss der Temperatur und der Feuchtigkeit auf den Brandbefall des Hafers durch gedeckten Haferbrand, (Ustilago laevis (K and S) Mag.). Meld. Norges Landbr. Hiskale 3: 157-168.
Trappman, W. 1927. (3340)
Shädlingsbekämpfung. Leipzig.
Treboux, O. 1903. (3341)
Einige stoffliche Einflüsse auf die Kohlensäureassimilation bei submersen Pflanzen. Flora 92: 49-76.
Tréfault, B. 1928. (3342)
Les blés et les gelées de Décembre 1927. Jour. Agr. Prat. 50: 29-30.
Trelease, S. F. and H. M. Trelease. 1928. (3343)
Susceptibility of wheat to mildew as influenced by salt nutrition. Bull. Torrey Bot. Club 55: 41-68.
Trénel, M. 1925. (3344)
Kennst du deinen Boden, Landwirt seine Krankheiten und Schwächen? Illus. Landw. Zeit. 45: 633-635.
Tropova, A. T. 1929. (3345)
The active acidity of the cell sap of some plants and their susceptibility to fungous and bacterial infection. Jour. Agr. Res. No. Caucasus 13: 3-16.
Troude. 1897. (3346)
Die Gelbfärbung der Zuckerrüben. Zeitschr. Pflanzenkr. 7: 55. (Abst.).
True, R. H. and C. S. Oglevee. 1905. (3347)
The effect of the presence of insoluble substances on the toxic action of poisons. Bot. Gaz. 39: 1-21.
Truog, E. 1918. (3348)
Soil acidity: I. Its relation to the growth of plants. Soil Sci. 5: 169-195.
Tryon, H. 1928. (3349)
Pineapple disease investigations. Interim report. Queensland Agr. Jour. 30: 26-34.
Tu, C. 1929. (3350)
Physiologic specialization in Fusarium spp. causing headblight of small grains. Phytopath. 19: 143-154.
Tubeuf, C. von. 1901. (3351)
Einige Beobachtungen über die Verbreitung parasitärer Pilze durch den Wind. Arb. K. Biol. Land- u. Forstw. 2: 175-177.
————. 1902. (3352)
Studien über die Brandkrankheiten des Getreides und ihre Bekämpfung. Arb. K. Biol. Land- u. Forstw. 2: 179-349.
————. 1903. (3353)
Die Gipfeldürre der Fichten. Naturw. Zeitschr. Land- u. Forstw. 1: 1-9.
————. 1904. (3354)
Frostwirkung auf Laubblätter. Naturw. Zeitschr. Land- u. Forstw. 2: 293-295.
————. 1913. (3355)
Absterben der Gipfeltriebe an Fichten. Naturw. Zeitschr. Forst- u. Landw. 11: 396-399.
————. 1914. (3356)
Hitzetot und Einschnürungskrankheiten der Pflanzen. Naturw. Zeitschr. Forst- u. Landw. 12: 19-36.
————. 1914. (3357)
Erkrankungen durch Luftabschluss und Überhitzung. Naturw. Zeitschr. Forst- u. Landw. 12: 67-88, 161-169.
————. 1930. (3358)
Gnomonia pseudoplatani n. sp., die Ursache der Riesenflecken auf den Blattern des Bergahorns (Acer pseudoplatanus). Zeitschr. Pflanzenkr. u. Pflanzenschutz 40: 364-375.
Tucker, C. M. 1926. (3359)
A leaf, bract, and boll spot of sea-island cotton caused by Helminthosporium gossypii. (n. sp.). Jour. Agr. Res. 32: 391-395.

———. 1926. (3360)
Phytophthora bud rot of coconut palms in Porto Rico. Jour. Agr. Res. 32: 471-498.
———. 1929. (3361)
Report of the plant pathologist. Porto Rico Agr. Exp. Sta. Ann. Rept., 1928, 29-35.
Tullis, E. C. 1930. (3362)
Stem rot of rice. Ark. Agr. Exp. Sta. Ann. Rept. 42, Bull. 257, 72-73.
Tunstall, A. C. 1928. (3363)
The influence of manuring on susceptibility of tea leaves to brown blight (Glomerella cingulata) at Borbhetta. Quart. Jour. Indian Tea Assoc., 1927, 183-186.
———. 1929. (3364)
Vegetable parasites of the Tea plant (continued). Blights on the root. Quart. Jour. Indian Tea Assoc., 68-75.
Turner, J. A. 1928. (3365)
Relation of distribution of certain Compositae to the hydrogen-ion concentration of the soil. Bull. Torrey Bot. Club 55: 199-213.
Underwood, L. M. 1891. (3366)
Diseases of the orange in Florida. Jour. Mycol. 7: 27-36.
Uppal, B. N. 1926. (3367)
Relation of oxygen to spore germination in some species of the Peronosporales. Phytopath. 16: 285-292.
———. 1928. (3368)
Control of the red rot of sugarcane. Bombay Dept. Agr. Leaflet 7, 3 pp.
Valleau, W. D. and E. M. Johnson. 1926. (3369)
The relation of nitrate to tobacco frenching. Science 64: 278-279.
——— and ———. 1927. (3370)
Tobacco frenching—A nitrogen deficiency disease. Ky. Agr. Exp. Sta. Bull. 281, 175-253.
Van Everdingen, E. 1926. (3371)
Het verband tusschen de weergesteldheid en de Aardappelziekte (Phytophthora infestans). Tijdschr. Plantenziekten 32: 129-140.
Van Hook, J. M. 1904. (3372)
Diseases of ginseng. N. Y. (Cornell) Agr. Exp. Sta. Bull. 219, 163-186.
———. 1907. (3373)
Celery root-rot. Ohio Agr. Exp. Sta. Circ. 72, 1-6.
Van der Meer, J. H. H. 1926. (3374)
Rhizoctonia—en Olpidium—aantasting van Bloemkoolplanten. Tijdschr. Plantenziekten 32: 209-242.
———. 1929. (3375)
Invloed van den vochtigheidstoestand van den grond op de slijmziekte, veroorzaakt door Bacterium solanacearum. Bull. Deli Proefstat. te Medan-Sumatra 29: 1-55.
Van Poeteren, N. 1929. (3376)
Verslag over de werkzaamheden van den Plantenziektenkundigen Dienst in het jaar 1928. Versl. Meded, Plantenziek. Dienst, Wageningen, 58: 1-99.
Van Slogteren, E. 1927. (3377)
De bestrijding van het geelziek der Hyacinthen. Weekbl. Bloembollencult. 38: 175-179.
——— and K. S. Thomas. 1930. (3378)
Smeul, een Tulpenziekte, veroorzaakt door een schimmel, Sclerotium perniciosum nov. spec. Weekbl. Bloembollencult. 41: 1-12.
Van der Waal, G. A. 1929. (3379)
Het blauw worden der Aardappelen. Tijdschr. Plantenziekten 35: 60-68.
Vanterpool, T. C. 1926. (3380)
Streak or winter blight of tomato in Quebec. Phytopath. 16: 311-331.
Vavilov, N. I. 1918. (3381)
Immunity of plants to infectious diseases. Moscow.
———. 1919. (3382)
Immunity of plants to infectious diseases. (Russian). Bull. Petrovski Agr. Acad., 1918, 1-239.
Veitch, F. P. 1906. (3383)
Plant growth as influenced by soil acidity. U. S. Dept. Agr., Bur. Chem. Bull. 99, 118-122.
Venable, W. H. 1917. (3384)
The gnarly apple disease of 1914. Vt. Agr. Exp. Sta. Bull. 203, 12-13.

Verwoerd, L. 1929. (3385)
The biology, parasitism and control of Urocystis tritici Koern., the causal organism of flag smut in wheat (Triticum spp.) and recording the occurrence of Urocystis occulta (Wallr.) Rab., in South Africa as the cause of "stem smut" in rye. (Trans. title). So. Afr. Dept. Agr., Sci. Bull. 76, 1-52.
Viala, P. 1887. (3386)
Les maladies de la vigne. Paris.
————. 1893. (3387)
Les maladies de la vigne. Montpellier.
————. 1894. (3388)
De l'action de certaines substances toxiques sur la vigne. 1895. Rev. Vitic. 1: 61-64, 111-114.
————. 1926. (3389)
Recherches sur les maladies de la vigne: Esca. Ann. Epiphyties 12: 1-108.
————. 1929. (3390)
Le rôle de l'acide phosphorique dans les maladies de carence. Rev. Vitic. 71: 325-326.
———— and P. Pacottet. 1904. (3391)
Sur le développement du Black Rot. Compt. Rend. Acad. Sci. (Paris) 139: 152-154.
Vibar, T. 1926. (3392)
The relation of temperature and moisture to diseased and disease-free corn. Philippine Jour. Sci. 31: 169-213.
Vidal, J. L. 1929. (3393)
La chlorose au pays de la craie. Prog. Agr. et Vitic. 91: 163-166.
Villa, F. 1929. (3394)
Effect on young rice plants of adding aluminum salts to complete culture solutions. Philippine Agr. 17: 607-625.
Vilmorin, H. L. 1893. (3395)
Étude sur la rouille du froment. Bull. Soc. Agr. France 34: 289-300.
Vilmorin, J. de. 1922. (3396)
Résultats de quelques expériences de blés en 1921. Compt. Rend. Acad. Agr. France 8: 311-312.
Virtanen, A. I. 1928. (3397)
Über die Einwirkung der Bodenazidität auf das Wachstum und die Zusammensetgung der Legumenosepflanzen. Biochem. Zeitschr. 193: 300-312.
Vladimirskaya, N. N. 1928. (3398)
Contribution to the biology of Epichloe typhina Tul. (Russian). La Défense des Plantes, Leningrad, 5: 335-347.
Voelcker, A. 1865. (3399)
On some causes of unproductiveness in soils. Jour. Roy. Agr. Soc. Eng., 2nd Ser., 1: 113-130.
Voelcker, J. A. 1903. (3400)
The influence of manganese salts on wheat and barley. Jour. Roy. Agr. Soc. Eng. 64: 348-351.
————. 1912. (3401)
The Woburn pot-culture experiments 1910-11-12. Jour. Roy. Agr. Soc. Eng. 73: 314-338.
————. 1915. (3402)
The influence of boron compounds on wheat and barley. Jour. Roy. Agr. Soc. Eng. 76: 347-351.
Voges, E. 1912. (3403)
Über Hagelschlagwunden an Obstgewächsen. Zeitschr. Pflanzenkr. 22: 457-462.
————. 1913. (3404)
Die Witterung und die Fusskrankheit des Getreides. Deutsche Landw. Presse 40: 993-994.
Vogolino, P. I. 1905. (3404a)
Contribuzione alla studio della Phyllactinia corylea. Nuovo Giorn. Bot. Ital. 12: 313.
Vogolino, R. 1922. (3405)
Servizio di segnalazione degli attacchi di Plasmopara viticola nel 1921 nelle Province di Torino, Cuneo, Novara. Nuovi Ann. Min. Agr. 2: 72-80.
Volck, W. H. 1903. (3406)
Spraying with distillates. Calif. Agr. Exp. Sta. Bull. 153, 1-31.
————. 1911. (3407)
Injury caused by apple powdery mildew. Better Fruit 5: (2) 39-46, 59-61; (9) 60-69.

Volkart, A. 1906. (3408)
Die Bekampfung des Steinbrandes des Weizens und des Kornes. Landw. Jahrb. Schweiz. 20: 445-490.
Vowinckel, O. 1927. (3409)
Die Anfalligkeit deutscher Kartoffelsorten gegenuber Phytophthora infestans (Mont.) De By., unter besonderer Berucksichtigung der Untersuchungsmethoden. Arb. Biol. Reichsanst Land- u. Forstw. 14: 588-641.
Vries, H. de. 1894. (3409a)
Over de erfelijkheid der fasciatiën. Bot. Jahrb. 6: 72-118.
Vuillemin, P. 1902. (3410)
Recherches sur les Mucorinées saccharifiantes (Amylomyces). Rev. Mycol. 24: 45-60.
Wagner, M. 1907. (3411)
Pflanzenphysiologische Studien im Walde. Berlin. 177 pp.
Waite, M. B. 1905. (3412)
Fruit trees frozen in 1904. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 51, 15-19.
————. 1910. (3413)
Peach yellows and frost injury. Science 31: 798-799.
————. 1931. (3414)
Weather's influence on plant diseases important and frequently dominant. U S. Dept. Agr. Yrbk., 1930, 534-541.
Wakabayashi, S. 1925. (3415)
The injurious effect of submergence on the cranberry plant. N. J. Agr. Exp. Sta. Bull. 420, 1-26.
Waksman, S. A. 1922. (3416)
Influence of soil reaction upon the growth of Actinomycetes causing potato scab. Soil Sci. 14: 61-79.
————. 1924. (3417)
Influence of soil reaction upon the distribution of filamentous fungi in the soil. Ecology 5: 54-59.
Waldron, M. 1923. (3418)
Effect of lightning on citrus Proc. Fla. State Hort. Soc. 36: 168-170.
Waldron, R. A. 1914. (3419)
Physiological studies on chestnut blight disease. Pa. Agr. Exp. Sta. Ann. Rept., 1912-13 (2), 152-156.
Walker, J. C. 1919. (3420)
Onion diseases and their control. U. S. Dept. Agr., Farmers' Bull. 1060, 1-23.
————. 1921. (3421)
Onion smudge. Jour. Agr. Res. 20: 685-721.
————. 1922. (3422)
Seed treatment and rainfall in relation to the control of cabbage black-leg. U. S. Dept. Agr., Dept. Bull. 1029, 1-27.
————. 1924. (3423)
On the nature of disease resistance in plants. Trans. Wis. Acad. Sci. 21: 225-247.
————. 1924. (3424)
White rot of Allium in Europe and America. Phytopath. 14: 315-322.
————. 1926. (3425)
The influence of soil temperature and soil moisture upon white rot of Allium. Phytopath. 16: 697-709.
————. 1926. (3426)
Botrytis neck rots of onions. Jour. Agr. Res. 33: 893-928.
————. 1927. (3427)
Diseases of cabbage and related plants. U. S. Dept. Agr., Farmers' Bull. 1439, 1-30.
————. 1929. (3428)
Some remarks on the physiological aspects of parasitism. Proc. Intern. Cong. Plant Sciences, Ithaca, 1926, 1263-1270.
————. 1930. (3429)
The nature of yellows resistance in cabbage. Phytopath. 20: 114-115. (Abst.).
———— and L. R. Jones. 1921. (3430)
The relation of soil temperature and other factors to onion smut and infection. Phytopath. 11: 52-53. (Abst.).
———— and L. R. Jones. 1921. (3431)
Relation of soil temperature and other factors to onion smut infection. Jour. Agr. Res. 22: 235-261.

———, K. P. Link, and H. R. Angell. 1929. (3432)
Chemical aspects of disease resistance in the onion. Proc. Nat'l Acad. Sci. 15: 845-850.
——— and R. Smith. 1930. (3433)
Effect of environmental factors upon the resistance of cabbage to yellows. Jour. Agr. Res. 41: 1-15.
——— and E. C. Tims. 1924. (3434)
A Fusarium bulb rot of onion and the relation of environment to its development. Jour. Agr. Res. 28: 683-694.
——— and W. B. Tisdale. 1922. (3435)
Further notes on the occurrence of cabbage black leg. Phytopath. 12: 43. (Abst.).
——— and F. L. Wellman. 1924. (3436)
Temperature relations of Urocystis cepulae (Frost). Phytopath. 14: 26. (Abst.).
——— and ———. 1926. (3437)
Relation of temperature to spore germination and growth of Urocystis cepulae. Jour. Agr. Res. 32: 133-146.
Walker, M. N. 1926. (3438)
A comparative study of the mosaic diseases of cucumber, tomato and Physalis. Phytopath. 16: 431-458.
———. 1927. (3439)
Cotton pathology and physiology. Fla. Agr. Exp. Sta. Ann. Rept., 38-39.
———. 1928. (3440)
Soil temperature studies with cotton. Fla. Agr. Exp. Sta. Bull. 197, 345-371.
Wallace, E. 1910. (3441)
Spray injury induced by lime-sulfur preparations. N. Y. (Cornell) Agr. Exp. Sta. Bull. 288, 101-137.
———. 1913. (3442)
Scab disease of apples. N. Y. (Cornell) Agr. Exp. Sta. Bull. 335, 541-624.
——— and H. H. Whetzel. 1910. (3443)
Peach leaf curl. N. Y. (Cornell) Agr. Exp. Sta. Bull. 276, 275-298.
Wallace, T. 1926-1927. (3444)
An experiment on the winter-killing of vegetable crops in market gardens. Jour. Bath, W. and S. Counties Soc. 1 (6): 190-194.
———. 1927-1928. (3445)
Leaf scorch on fruit trees. Jour. Pomol. and Hort. Sci. 6: 243-281.
———. 1928. (3446)
Leaf scorch on fruit trees. Part IV. The control of leaf scorch in the field. Jour. Pomol. and Hort. Sci. 7: 1-31.
———. 1929. (3447)
Investigations on chlorosis of fruit trees IV. Jour. Pomol. and Hort. Sci. 7: 172-198, 251-269.
———. 1929. (3448)
Frost injury to apple trees. Gardeners' Chron. 85: 209-210.
——— and C. E. T. Mann. 1925-1926. (3449)
Investigations on chlorosis of fruit trees. Jour. Pomol. and Hort. Sci. 5: 115-123.
Walpert, F. S. 1924. (3450)
Studies in the physiology of the fungi. XVII. The growth of certain wood-destroying fungi in relation to the hydrogen-ion concentration of the media. Ann. Mo. Bot. Gard. 11: 43-97.
Walster, H. L. 1921. (3451)
Rust and the weather. Science 53: 346.
Walter, H. 1929. (3452)
Die Winterschäden an unserer immergrünen Pflanzen während der Kälteperiode Januar-März 1929 und ihre Ursachen. Naturwissenschaften 17: 854-859.
Walton, R. C. 1914. (3453)
The relation of temperature to the expulsion of ascospores of Endothia parasitica. Phytopath. 4: 52. (Abst.).
———. 1925. (3454)
Cause of the peach drop in 1924. Proc. Pa. State Hort. Assoc. 66: 71-75.
———. 1926. (3455)
Cause and prevention of peach canker. Proc. Pa. State Hort. Assoc. 67: 46-50.
Wann, F. B. 1929. (3456)
A study of chlorosis. Utah Agr. Exp. Sta. Bull. 209, 49-50.

———. 1930. (3457)
Chlorosis yellowing of plants: cause and control. Utah Agr. Exp. Sta. Circ. 85, 1-11.
——— and E. F. Hopkins. 1927. (3458)
Further studies on growth of Chlorella as affected by hydrogen-ion concentration. Bot Gaz. 83: 193-201.
Ward, F. S. 1930. (3459)
Investigations on Panama disease in Malaya. Straits Settlements and Fed. Malay States Dept. Agr. Sci. Ser. (2), 1-26.
Ward, H. M. 1890. (3460)
On some relations between host and parasite in certain epidemic diseases of plants Proc. Roy. Soc., London, 47: 393-443.
———. 1901. (3461)
The bromes and their rust fungus. Ann. Bot. 15: 560-562.
———. 1901. (3462)
Disease in plants. London.
———. 1902. (3463)
On the relations between host and parasite in the bromes and their brown rust, Puccinia dispersa (Erikss.). Ann. Bot. 16: 233-315.
———. 1902. (3464)
On the question of "Predisposition" and "Immunity" in plants. Proc. Cambridge Phil Soc. 11: 307-328.
———. 1902-1903. (3465)
Experiments on the effect of mineral starvation on the parasitism of the Uredine fungus, Puccinia dispersa on species of Bromus. Proc. Roy. Soc., London, 71: 130-151.
———. 1905. (3466)
Recent researches on the parasitism of fungi. Ann. Bot. 19: 1-54.
Wardlaw, C. W. 1927. (3467)
The strawberry disease in Lanarkshire. Ann. Appl. Biol. 14: 197-201.
———. 1927. (3468)
Note on the occurrence of Pythium proliferum deBary, on the roots of the strawberry Ann. Bot. 41: 817-818.
Ware, W. M. 1927. (3469)
Frost injury to apples. Gardeners' Chron. 82: 154.
Warington, K. 1923. (3470)
The effect of boric acid and borax on the broad bean and certain other plants. Ann Bot. 37: 629-672.
Waterman, A. M. 1928. (3471)
Rose diseases: Their causes and control. U. S. Dept. Agr., Farmers' Bull. 1547, 1-19
Waters, C. W. 1928. (3472)
The control of teliospore and urediniospore formation by experimental methods. Phytopath. 18: 157-213.
Waters, R. 1917. (3473)
Gravy eye, or mattery-eye in potatoes. Jour. Agr. New Zealand 14: 357-362.
———. 1923. (3474)
Apple flesh-collapse or brown-heart. Control measures for orchard and cool store. Jour. Agr. New Zealand 27: 32-41.
Watson, W. 1891. (3475)
Effects of fog on plants grown in the houses at Kew. Nature 45: 16.
Weaver, W. A. 1921. (3476)
Pecan rosette. Proc. Conv. Nat'l Nut Growers' Assoc. 20: 67-72.
Webb, R. W. 1919. (3477)
Studies in the physiology of the fungi X. Germination of the spores of certain fungi in relation to hydrogen-ion concentration. Ann. Mo. Bot. Gard. 6: 201-222.
———. 1921. (3478)
Studies in the physiology of fungi XV. Germination of the spores of certain fungi in relation to the hydrogen-ion concentration. Ann. Mo. Bot. Gard. 8: 283-341.
———. 1927. (3479)
Certain factors influencing the development of the mosaic disease in winter wheat Phytopath. 17: 41. (Abst.).
———. 1927. (3480)
Soil factors influencing the development of the mosaic disease in winter wheat. Jour Agr. Res. 35: 587-614.

———. 1928. (3481)
Further studies on the soil relationships of the mosaic disease of winter wheat. Jour. Agr. Res. 36: 53-75.
——— and H. Fellows. 1926. (3482)
The growth of Ophiobolus graminis Sacc. in relation to hydrogen-ion concentration. Jour. Agr. Res. 33: 845-872.
Webber, H. J. 1895. (3483)
Fertilization of the soil as affecting the orange in health and disease. U. S. Dept. Agr Yrbk., 1894, 193-202.
———. 1923. (3484)
The June drop of oranges. Calif. Citrogr. 8: 183, 196-197.
——— et al. 1919. (3485)
A study of the effects of freezes on citrus in California. Calif. Agr. Exp. Sta. Bull. 304 245-321.
Weber, G. F. 1921. (3486)
Studies on corn rust. Phytopath. 11: 31-32. (Abst.).
———. 1922. (3487)
Studies on corn rust. Phytopath. 12: 89-97.
———. 1922. (3488)
Septoria diseases of cereals. Phytopath. 12: 449-470.
———. 1922. (3489)
II. Septoria diseases of wheat. Phytopath. 12: 537-585.
———. 1925. (3490)
Disease of cucumbers. Fla. Agr. Exp. Sta. Bull. 177, 29-71.
———. 1928. (3491)
Plant pathology. (Citrus canker). Fla. Agr. Exp. Sta. Ann. Rept., 65R-78R.
———. 1929. (3492)
A Stemphylium leaf spot of tomatoes. Phytopath. 19: 92. (Abst.).
——— and A. C. Foster. 1928. (3493)
Diseases of lettuce, romaine, escarole and endive. Fla. Agr. Exp. Sta. Bull. 195, 303-333
——— and G. B. Ramsey. 1926. (3494)
Tomato diseases in Florida. Fla. Agr. Exp. Sta. Bull. 185, 61-138.
Wedgeworth, H. H., D. C. Neal, and J. M. Wallace. 1927. (3495)
Wilt and blossom-end rot of the tomato. Miss. Agr. Exp. Sta. Bull. 247, 1-18.
Wehmer, C. 1897. (3496)
II. Einige Beobachtungen über den Einfluss des Alters und der Temperatur auf die Entwickelungsfähigkeit von Mycelpilzsporen. Centbl. Bakt. 3: 104-108, 147-149.
———. 1898. (3497)
Die Bacterienfäule (Nassfäule) der Kartoffelknollen. Ber. Deutsch. Bot. Ges. 16 172-177.
———. 1900. (3498)
Über einen Fall intensiver Schädigung einer allee durch ausströmendes Leuchtgas Zeitschr. Pflanzenkr. 10: 267-269.
———. 1917. (3499)
Leuchtgaswirkung auf Pflanzen. I. Ber. Deutsch. Bot. Ges. 35: 135-154, 318-332 403-410.
———. 1918. (3500)
Die Wirkung des Gases auf das Wurzelsystem von Holzpflanzen; Ursachen der Gaswirkung. Ber. Deutsch. Bot. Ges. 36: 140-150, 460-464.
Weigert, J. 1913. (3501)
Hagelschäden an unseren Kulturpflanzen. Landw. Jahrb., Bayern, 3: 49-57.
Weimer, J. L. 1917. (3502)
Three cedar rust fungi, their life histories and the diseases they produce. N. Y (Cornell) Agr. Exp. Sta. Bull. 390, 597-641.
———. 1924. (3503)
Alternaria leafspot and brownrot of cauliflower. Jour. Agr. Res. 29: 421-441.
———. 1926. (3504)
Ringspot of crucifers caused by Mycosphaerella brassicicola (Fr.) Lindau. Jour. Agr Res. 32: 97-132.
———. 1926. (3506)
A leaf spot of cruciferous plants caused by Alternaria herculea. Jour. Agr. Res. 33: 645-650.

———. 1930. (3507)
Temperature and soil-moisture relations of Fusarium oxysporum var. medicaginis. Jour. Agr. Res. 40: 97-103.
———. 1930. (3508)
Alfalfa root injuries resulting from freezing. Jour. Agr. Res. 40: 121-143.
——— and L. L. Harter. 1921. (3509)
Wound-cork formation in the sweet potato. Jour. Agr. Res. 21: 637-647.
——— and ———. 1923. (3510)
Temperature relations of eleven species of Rhizopus. Jour. Agr. Res. 24: 1-40.
Weir, J. R. 1912. (3511)
A Botrytis on conifers in the Northwest. Phytopath. 2: 215.
———. 1913. (3512)
An epidemic of needle diseases in Idaho and western Montana. Phytopath. 3: 252-253.
———. 1916. (3513)
Mistletoe injury to conifers in the northwest. U. S. Dept. Agr., Dept. Bull. 360, 1-39.
———. 1918. (3514)
Notes on the altitudinal range of forest fungi. Mycologia 10: 4-14.
———. 1926. (3515)
A pathological survey of the para rubber tree (Hevea brasiliensis) in the Amazon valley. U. S. Dept. Agr., Dept. Bull. 1380, 1-129.
Weis, Fr. and N. Nielsen. 1927. (3516)
Nogle Unders gelser over Rodfordaerversvampen (Polyporus radiciperda). Dansk. Skovf. Tidsskr., Copenhagen, 12: 214-225.
Weiske, F. 1927. (3517)
Beobachtungen über den Einfluss der Bodenreaktion auf die Entwicklung von Gartengewächsen. Landw. Jahrb. 66: 125-145.
Weiss, F. 1924. (3518)
The effect of rust infection upon the water requirement of wheat. Jour. Agr. Res. 27: 107-118.
———. 1925. (3519)
The conditions of infection in potato wart. Amer. Jour. Bot. 12: 413-443.
———. 1928. (3520)
A summary of the important contributions to potato pathology which have appeared in foreign periodical literature in the past year. Proc. Amer. Potato Assoc. 14: 215-225.
——— and P. Brierly. 1928. (3521)
Factors of spread and repression in potato wart. U. S. Dept. Agr., Tech. Bull. 56, 1-13.
———, J. I. Lauritzen, and P. Brierley. 1928. (3522)
Factors in the inception and development of Fusarium rot of stored potatoes. U. S. Dept. Agr., Tech. Bull. 62, 1-35.
Weiss, J. E. 1918. (3523)
Einfluss der Witterungsverhältnisse auf das auftreten von Pflanzenkrankheiten und tierischen Schädlingen 1916 und 1917. Zeitschr. Pflanzenkr. 28: 116-142, 201-210.
Weldon, G. P. 1915. (3524)
Smelter fumes injury to vegetation. Calif. Sta. Com. Hort. Mo. Bull. 4, 240-249.
———. 1927. (3525)
Weather and fungous development. Pacific Rural Press. 113 (Apr. 9): 499.
Wellensiek, S. J. 1926. (3526)
Waarneminger over du Klaverstengelbrandziekte. Tijdschr. Plantenziekten 32: 265-302.
Welles, C. G. 1922. (3527)
Identification of bacteria pathogenic to plants previously reported from the Philippine Islands. Philippine Jour. Sci. 20: 279-285.
Wellman, F. L. 1928. (3528)
The reaction and treatment of soils infested with Plasmodiophora brassicae Wor. Phytopath. 18: 141-142. (Abst.).
———. 1930. (3529)
Clubroot of crucifers. U. S. Dept. Agr., Tech. Bull. 181, 1-32.
Wells, A. E. 1917. (3530)
Results of recent investigations of the smelter smoke problem. Jour. Indus. and Engin. Chem. 9: 640-646.
Wells, H. M. 1929. (3531)
Treating winter injury of apple trees. Mich. Agr. Exp. Sta. Quart. Bull. 11, 188-192.
Wenholz, H. and W. H. Darragh. 1927. (3532)
The root, stalk, and ear rot diseases of maize. Agr. Gaz. N. S. Wales 38: 39-49.

Werner, H. O. 1925. (3533)
Relation of environment to spindle-tuber symptoms. Proc. Amer. Potato Assoc. 11: 102-106.
————. 1926. (3534)
The spindle-tuber disease as a factor in seed potato production. Nebr. Agr. Exp. Sta. Res. Bull. 321, 1-128.
Werth, E. 1921. (3535)
Phänologie und Pflanzenschutz. Zeitschr. Pflanzenkr. 31: 81-89.
West, C. B. 1924. (3536)
Plant physiology. Sci. Prog. 18: 386-392.
West, C. J. and C. Hull. 1923. (3537)
List of manuscript bibliographies in the biological sciences. Nat'l Res. Council Repr. and Cir. Series 45: 1-51.
West, F. L. 1917. (3538)
The freezing of fruit buds. Utah Agr. Exp. Sta. Bull. 151, 1-24.
Westerdijk, J. 1915. (3539)
Phytopathology in the tropics. Ann. Mo. Bot. Gard. 2: 307-313.
Westgate, J. M. 1917. (3540)
The yellowing of pineapples on manganese soil. Hawaiian Agr. Exp. Sta. Ann. Rept., 1916, 23-24.
————. 1920. (3541)
Manganese investigations. Hawaiian Agr. Exp. Sta Ann. Rept., 1919, 44.
Weston, W. H. 1920. (3542)
Philippine downy mildew of maize. Jour. Agr. Res. 19: 97-122.
————. 1921. (3543)
Th occurrence of wheat downy mildew in the United States. U. S. Dept. Agr., Dept. Circ. 186, 1-6.
Wheeler, H. J. and G. E. Adams. 1897. (3544)
On the use of flowers of sulfur and sulfate of ammonia as preventives of potato scab in contaminated soils. R. I. Agr. Exp. Sta. Ann. Rept. 10, 254-268.
————, B. L. Hartwell, and N. L. C. Moore. 1899. (3545)
Upon the after effect of sulfur, when applied to soils for the purpose of preventing potato-scab. R. I. Agr. Exp. Sta. Ann. Rept. 12, 163-167.
———— and ————. 1902. (3546)
Conditions determining the poisonous action of chlorids. R. I. Agr. Exp. Sta. Ann. Rept. 15, 287-304.
———— and J. D. Towar. 1893. (3547)
Observations on the effect of certain fertilizers in promoting the development of the potato scab, and possible reasons for the same. R. I. Agr. Exp. Sta. Bull. 26, 141-156.
————, ————, and G. M. Tucker. 1894. (3548)
Further observations upon the effect of soil conditions upon the development of the potato scab. R. I. Agr. Exp. Sta. Bull. 30, 66-85.
———— and G. M. Tucker. 1895. (3549)
Upon the effect of barnyard manure and various compounds of sodium, calcium and nitrogen upon the development of the potato scab. R. I. Agr. Exp. Sta. Bull. 33, 51-79.
Wherry, E. T. 1920. (3550)
Soil tests of Ericaceae and other reaction-sensitive families in northern Vermont and New Hampshire. Rhodora 22: 33-49.
————. 1920. (3551)
Plant distribution around salt marshes in relation to soil acidity. Ecology 1: 42-48.
————. 1920. (3552)
Correlation between vegetation and soil acidity in southern New Jersey. Proc. Nat. Acad. Sci. 72: 113-119.
————. 1922. (3553)
Soil acidity—its nature, measurement, and relation to plant distribution. Smithsonian Inst. Ann. Rept., 1920, 247-268.
————. 1922. (3554)
Recent work on soil acidity and plant distribution. Science 55: 568-570.
Whetzel, H. H. 1904. (3555)
Onion blight. N. Y. (Cornell) Agr. Exp. Sta. Bull. 218, 139-161.
————. 1906. (3556)
The blight canker of apple-trees. N. Y. (Cornell) Agr. Exp. Sta. Bull. 236, 177-217.
———— et al. 1916. (3557)
Ginseng diseases and their control. U. S. Dept. Agr., Farmers' Bull. 736, 1-22.

———— and J. Rosenbaum. 1912. (3558)
The diseases of ginseng and their control. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 250, 1-44.
Whipple, O. B. 1907. (3559)
Western slope fruit investigation. Colo. Agr. Exp. Sta. Bull. 118, 1-16.
————. 1912. (3560)
Winter injury to fruit buds of the apple and pear. Mont. Agr. Exp. Sta. Bull. 91, 33-45.
————. 1912. (3561)
Winter injury to fruit buds of the apple and pear. Proc. Amer. Soc. Hort. Sci. 9: 143-148.
White, H. E. 1930. (3562)
Bacterial spot of radish and turnip. Phytopath. 20: 653-662.
White, H. L. 1929. (3563)
The wilt disease of the carnation. Jour. Pomol. and Hort. Sci. 7: 302-323.
White, J. 1911. (3564)
Bitter pit in apples. Proc. Roy. Soc. Victoria 24: 2-16.
White, J. W. 1915. (3565)
Concerning the growth and composition of clover and sorrel (Rumex acetosella) as influenced by varied amounts of limestone. Pa. Agr. Exp. Sta. Ann. Rept., 1913-1914, 46-66.
White, R. P. 1924. (3566)
Tomato wilt. Phytopath. 14: 28. (Abst.).
————. 1926. (3567)
Tomato wilt investigations. Kan. Agr. Exp. Sta. Tech. Bull. 20, 1-32.
————. 1926. (3568)
Rhizoctonia crown rot of carrots. Phytopath. 16: 367-368.
————. 1927. (3569)
Studies on tomato wilt caused by Fusarium lycopersici Sacc. Jour. Agr. Res. 34: 197-239.
————. 1929. (3570)
Winter injury—its cause and how to prevent it. N. J. Agr. 11 (11): 2-3.
————. 1930. (3571)
Plant pathology. (Rhododendron wilt). N. J. Agr. Exp. Sta. Ann. Rept. 50, 39-44.
White, T. H. 1928. (3572)
Importance of temperature control of snapdragon rust. Florist's Exchange 69: 612.
Whitehead, T. and W. A. Pritchard. 1929. (3573)
Dry-rot of swedes. Welsh Jour. Agr. 5: 159-175.
Whitehouse, W. E. 1919. (3574)
Cold storage for Iowa apples. Iowa Agr. Exp. Sta. Bull. 192, 179-216.
Whitten, J. C. 1897. (3575)
Winter protection of the peach. Mo. Agr. Exp. Sta. Bull. 38, 140-164.
Widtsoe, J. A. 1903. (3576)
The relation of smelter smoke to Utah agriculture. Utah Agr. Exp. Sta. Bull. 88, 145-179.
Wiegand, K. M. 1906. (3577)
The occurrence of ice in plant tissue. Plant World 9: 25-39.
Wieler, A. 1897. (3578)
Über unsichtbare Rauchschäden bei Nadelbäumen. Zeitschr. Pflanzenkr. 7: 297-299. (Abst.).
————. 1900. (3579)
Über die unsichtbaren Rauchschäden und insbesondere über die Einwirkung der Salzsäure auf die Laubbäume. Zeitschr. Angew. Chemie 13: 1035.
————. 1903. (3580)
Über unsichtbare Rauchschäden. Zeitschr. Forst. u. Jagdw. 35: 204-225.
————. 1905. (3581)
Untersuchungen über die Einwirkung schwefliger Säure auf die Pflanzen. Berlin.
————. 1906. (3582)
Neuere Arbeiten über die Einwirkung saurer Gase auf die Pflanzen. Jahresbr. Ver Angew. Bot. 3: 166-178.
————. 1909. (3583)
Bericht über die auchschadënliteratur der letzten Jahre. (1907). Jahresbr. Ver. Angew. Bot. 6: 73-102.
————. 1912. (3584)
Die Entkalkung des Bodens durch Hüttenrauch und ihre Wirkung auf die Pflanze. Jahresbr. Ver. Angew. Bot. 10: 58-74.

———. 1912. (3585)
Pflanzenwachstum und Kalkmangel im Boden. Berlin.
———. 1919. (3586)
Rauchschäden bei Kokereien. Jahresbr. Ver. Angew. Bot. 16: 64-76.
———. 1922. (3587)
Die Beteiligung des Bodens an den durch Rauchsäuren hervorgerufenen Vegetationsschäden. Zeitschr. Forst. u. Jagdw. 54: 534-543.
———. 1925. (3588)
Über die Ursache der bei Teerschäden an den Blättern auftretenden Verfärbungen. Bot. Arch. 11: 272-314.
Wiesmann, R. 1930. (3589)
Über Schorbefall der Lageräpfel. Schweiz. Zeitschr. Obst- und Weinbau 39: 517-522.
Wiesner, J. 1873. (3590)
Untersuchungen über den Einfluss der Temperatur auf die Entwicklung des Penicillium glaucum. Sitzber. Akad. Wiss. Wien. 68: 5-16.
Wiggans, C. 1925. (3591)
Winter injury to fruit trees. Rept. Iowa State Hort. Soc. 60: 63-71.
Wilcox, E. M., G. K. K. Link, and V. W. Pool. 1913. (3592)
A dry rot of the Irish potato tuber. Nebr. Agr. Exp. Sta. Res. Bull. 1, 1-88.
Wilcox, E. V. and W. P. Kelley. 1912. (3593)
The effect of manganese on pineapple plants and the ripening of the pineapple fruit. Hawaii Agr. Exp. Sta. Bull. 28, 1-20.
Wilcox, R. B. 1926. (3594)
Observations on masking of raspberry mosaic by high temperature. Phytopath. 16: 80. (Abst.).
Wilfarth, H. and G. Wimmer. 1902. (3595)
Die Wirkung des Kaliums auf des Pflanzenleben nach Vegetationsversuchen mit Kartofflen, Tabak, Buchweizen, Senf, Zickorien und Hafer. Arb. Deut. Landw. Ges. 68: 1-106.
——— and ———. 1903. (3596)
Die Kennzeichen des Kalimangels an den Blättern der Pflanzen. Zeitschr. Pflanzenkr. 13: 82-87.
——— and ———. 1903. (3597)
Die Wirkungen des Stickstoff-, Phosphorsäure-und Kalimangels auf die Pflanzen. Jour. Landw. 51: 129-138.
Wilk, L. 1916. (3598)
Rauchschäden durch die Aluminum—und Karbidfabrikation. Archiv. Chemie Mikr. 9: 176-189.
Wille, F. 1927. (3599)
Untersuchungen über die Beziehungen zwischen Immunität und Reaktion des Zellsaftes. Zeitschr. Pflanzenkr. u. Pflanzenschutz 37: 129-158.
Williams, C. B. 1929. (3600)
Magnesium deficiency of sandy soil types. N. C. Agr. Exp. Sta. Ann. Rept., 1928, 18-19.
Williams, J. C. 1926. (3601)
Potash in relation to plant and animal diseases. Amer. Fertilizer 64: 36-38, 64, 66.
Williams, P. H. 1927. (3602)
The effect of some compounds on Verticillium wilt of tomato. Exp. and Res. Sta., Cheshunt, Herts., Ann. Rept. 13, 38-41.
——— et al. 1926. (3603)
Mycological investigations. Exp. and Res. Sta., Cheshunt, Herts., Ann. Rept. 12, 26-46.
Willis, G. and H. B. Mann. 1930. (3604)
Manganese as a fertilizer. Experiments on South Atlantic Coastal Plain soils. Amer. Fertilizer 72: 21-25.
Willis, L. G. 1928. (3605)
Response of oats and soybeans to manganese on some Coastal Plain soils. N. C. Agr. Exp. Sta. Bull. 257, 1-13.
Willis, L. J. and J. O. Carrero. 1921. (3606)
Rice investigations. Porto Rico Agr. Exp. Sta. Rept., 8-9.
——— and ———. 1923. (3607)
Influence of some nitrogenous fertilizers on the development of chlorosis in rice. Jour. Agr. Res. 24: 621-640.
Wilson, E. E. 1918. (3608)
Factors important in the development of perithecia of Venturia inequalis. Phytopath. 18: 145-146. (Abst.).

———. 1928. (3609)
Studies of the ascigerous stage of Venturia inequalis (Cke.) Wint. in relation to certain factors of the environment. Phytopath. 18: 375-417.
Wilson, G. W. 1908. (3610)
Notes on Peronosporales in 1907. Proc. Iowa Acad. Sci. 15: 85-89.
———. 1912. (3611)
Some recent work on Peronosporales. Phytopath. 2: 129-130.
Wilson, J. D. 1928. (3612)
A quick-reading atmometer; its use in detecting small variations in rate of air movement. Ecology 9: 412-420.
——— and A. G. Newhall. 1930. (3613)
The control of celery blight. Ohio Agr. Exp. Sta. Bull. 461, 1-30.
Wilson, W. W. 1912. (3614)
Frosts in New York. N. Y. (Cornell) Agr. Exp. Sta. Bull. 316, 505-543.
Wiltshire, S. P. 1920. (3615)
The apple canker fungus. Agr. and Hort. Res. Sta., Bristol Univ., Ann. Rept., 1919, 23-29.
Winberg, O. F. E., G. C. Starcher, and C. L. Isbell. 1918. (3616)
Report on freeze injury to citrus trees for 1916 and 1917, with notes on orange culture in South Alabama. Ala. Agr. Exp. Sta. Bull. 199, 1-26.
Wingard, S. A. 1922. (3617)
Yeast-spot of lima beans. Phytopath. 12: 525-532.
———. 1926. (3618)
Black end of apple. Phytopath. 16: 1011-1012.
Winston, J. R. 1923. (3619)
Citrus scab: Its cause and control. U. S. Dept. Agr., Dept. Bull. 1118, 1-38.
———, J. R. Bowman, and W. J. Bach. 1927. (3620)
Citrus melanose and its control. U. S. Dept. Agr., Dept. Bull. 1474, 1-63.
Winters, R. Y. 1909. (3621)
Celery diseases. Fla. Agr. Exp. Sta. Ann. Rept., 1908, 99-104.
Wislicenus, H. and F. W. Neger. 1914. (3622)
Über die äusseren und inneren Vorgänge der Einwirkung stark verdünnter saurer Gase und saurer Nebel auf die Pflanze. Mitt. K. Sachs Forstl. Versuchsanst. Tharandt 1: 85-175.
Wislicenus, J. A. 1908-1916. (3623)
Sammlung von Abhandlungen über Abgase und Rauchschäden. Heft. 1-11. Berlin.
Wissemann, F. 1927. (3624)
Rauchschäden und deren Bekampfung. Mitt. Deut. Dendrol. Ges. 38: 252-254.
Wöber, A. 1920. (3625)
Über die Giftwirkung von Arsen-, Antimon-, und Fluorverbindungen auf einige Kulturpflanzen. Angew. Bot. Zeitschr. Erf. Nutzpfl. 2: 161-178.
Woglum, R. S. 1926. (3626)
The use of oil spray on citrus trees. Jour. Econ. Ent. 19: 732-733.
———. 1929. (3627)
Oil spray damage to citrus. Calif. Dept. Agr. Mo. Bull. 18 (10): 572-573.
Wolf, F. A. 1914. (3628)
Strawberry leaf blight. Proc. Ala. State Hort. Soc. 11: 56-58.
———. 1916. (3629)
Citrus canker. Jour. Agr. Res. 6: 69-99.
———. 1920. (3630)
A bacterial leafspot of velvet bean. Phytopath. 10: 73-80.
———. 1922. (3631)
Wildfire of tobacco. N. C. Agr. Exp. Sta. Bull. 246, 1-26.
———. 1924. (3632)
Bacterial pustule of soybean. Jour. Agr. Res. 29: 57-68.
——— and R. O. Cromwell. 1917. (3633)
Xylaria root rot of apple. Jour. Agr. Res. 9: 269-276.
——— and A. C. Foster. 1918. (3634)
Tobacco wildfire. Jour. Agr. Res. 12: 449-458.
———, I. V. Shunk, and A. C. Foster. 1921. (3635)
Studies in the physiology of some plant pathogenic bacteria. N. C. Agr. Exp. Sta. Tech. Bull. 20, 1-47.
Wollenweber, H. W. 1913. (3636)
Pilzparasitäre Welkrankheiten der Kulturpflanzen. Ber. Deutsch. Bot. Ges. 31: 17-34.

———. 1913. (3637)
Studies on the fusarium problem. Phytopath. 3: 24-48.
Wollny, E. 1901. (3638)
Über den Einfluss der Kulturmethode und der Düngung auf die Ausbreitung der Kartoffelkrankheit. Zeitschr. Pflanzenkr. 11: 153. (Abst.).
Wood, J. G. 1929. (3639)
Physiological derangements in vines subsequent to injury by cold. Aust. Jour. Exp. Biol. and Med. Sci. 6 (2): 103-106.
Woodcock, E. F. 1919. (3640)
Observations on the potato disease conditions in Michigan for the summer of 1918. Mich. Acad. Sci. Rept. 21: 281-285.
Woods, A. F. 1897. (3641)
The Bermuda lily disease. U. S. Dept. Agr., Div. Veg. Physiol. and Path. Bull. 14, 1-15.
———. 1902. (3642)
The relation of nutrition to the health of plants. U. S. Dept. Agr. Yrbk., 1901, 155-176.
———. 1902. (3643)
The mosaic disease of tobacco. U. S. Dept. Agr., Bur. Pl. Indus. Bull. 18, 1-24.
Woodworth, C. W. and G. E. Colby. 1899. (3644)
Paris green for the codling-moth. Calif. Agr. Exp. Sta. Bull. 126, 1-40.
Woolman, H. M. and H. B. Humphrey. 1924. (3645)
Summary of literature on bunt, or stinking smut, of wheat. U. S. Dept. Agr., Dept. Bull. 1210, 1-44.
——— and ———. 1924. (3646)
Studies in the physiology and control of bunt, or stinking smut, of wheat. U. S. Dept. Agr., Dept. Bull. 1239, 1-29.
Wormald, H. 1912. (3647)
Experiments with Rhizopus nigricans on tomatoes. Jour. S. E. Agr. Coll., Wye, 21: 381-391.
———. 1928. (3648)
Notes on plant diseases in 1927. East Malling Res. Sta. Ann. Rept., 1926 and 1927, 111-118.
Wortmann, J. 1892. (3649)
Über die sogenannte "Stippen" der Aepfel. Landw. Jahrb. Schweiz 21: 663-675.
Wrangell, M. and K. W. Müller. 1927. (3650)
Die Reaktion Württembergischer Böden. Ein Beitrag zur Frage der Beziehungen von Bodenreaktion zu geologischen Ursprung, landwirtschaflicher Klassifizierung und Vegetation. Jahr. Ver. Naturkunder, Württemburg, 83: 112-145.
Wright, C. H. and T. G. Mason. 1924. (3651)
Concerning correlations between certain soil moisture constants and crinkle of the cotton plant. Ann. Bull. Dept. Agr. Nigeria 3: 32-40.
Wright, R. C. and H. D. Diehl. 1927. (3652)
Freezing injury to potatoes. U. S. Dept. Agr., Tech. Bull. 27, 1-22.
Wüthrich, E. 1892. (3653)
Über die Einwirkung von Metallsalzen und Säuren auf die Keimfähigkeit der Sporen einiger der verbreitetsten parasitischen Pilze unserer Kulturpflanzen. Zeitschr. Pflanzenkr. 2: 16-31, 81-94.
Yamamoto, Y. 1930. (3654)
Ein Beitrag zur Kenntnis der Gattung Rhizopus. II. Jour. Fac. Agr., Hokkaido Imp. Univ., Sapporo, Japan, 28: 103-327.
Yamano, Y. 1905. (3655)
Can aluminum salts enhance plant growth? Bull. Coll. Agr. (Tokyo) 6: 429-432.
Yakogi, K. 1927. (3656)
Studies on the Hypochnus-disease of Sesamum indicum and the pathogenicity of its causal organism to rice plants and soy beans. (Japanese). Agr. and Hort. 2: 487-500.
Yonemaru, T. 1927. (3657)
Über die schädlichen Wirkungen der schwefligen Säuren auf die Pflanzen. Mitteil. Versuchsst. (Tokyo) 47: 1-102.
Yossifovitch, M. 1923. (3658)
Contribution à l'étude de l'Oidium de la Vigne et de son traitement. Bull. Soc. Bot. France 70: 574 (Abst.).
———. 1929. (3659)
Peronospora arborescens (Berk.) de Bary, parasite très important de Papaver somniferum en Yougoslavie. Rev. Path. Vég. et Ent. Agr. 16: 235-270.

Young, E. H. 1930. (3660)
Physiological studies in relation to the taxonomy of Monascus spp. Trans. Wis. Acad. Sci. 25: 227-244.
Young, F. D. and C. C. Cate. 1923. (3661)
Damaging temperatures and orchard heating in the Rogue River Valley, Oregon. U. S. Dept. Agr., Mo. Weather Rev. 51: 617-639.
Young, H. C. 1922. (3662)
The toxic property of sulfur. Ann. Mo. Bot. Gard. 9: 403-435.
————. 1929. (3663)
Cherry leaf spot control. Ohio Agr. Exp. Sta. Bimo. Bull. 141, 179-182.
————. 1930. (3664)
Water soluble arsenic in spray material. Ohio Agr. Exp. Sta. Bull. 448, 1-22.
———— and C. May. 1927. (3665)
The timing of apple scab sprays. Ohio Agr. Exp. Sta. Bull. 403, 1-28.
———— and R. C. Walton. 1924. (3666)
Spray injury. Phytopath. 14: 61. (Abst.).
Young, P. A. 1930. (3667)
Spray-oil injury in apple leaves and limbs. Phytopath. 20: 122. (Abst.).
————. 1930. (3668)
Research on potato viruses in Montana. Phytopath. 20: 135. (Abst.).
———— and H. E. Morris. 1927. (3669)
Sclerotinia wilt of sunflowers. Mont. Agr. Exp. Sta. Bull. 208, 1-32.
Young, V. H. 1926. (3670)
Cotton wilt studies. Phytopath. 16: 76. (Abst.).
————. 1927. (3671)
The relationship of soil temperature to the development of cotton wilt. Ark. Agr. Exp. Sta. Bull. 221, 26.
————. 1928. (3672)
Cotton wilt studies I. Relation of soil temperature to the development of cotton wilt. Ark. Agr. Exp. Sta. Bull. 226, 1-50.
———— et al. 1926. (3673)
Plant diseases. Ark. Agr. Exp. Sta. Ann. Rept., Bull. 215, 52-59.
Z., G. 1926. (3674)
Research on drought in Russia. Intern. Rev. Sci. and Pract. Agr. 4: 382-398.
Zacharowa, T. M. 1925. (3675)
Über den Einfluss niedriger Temperaturen auf die Pflanzen. Jahrb. Wiss. Bot. 65: 61-87.
Zalewski, A. 1883. (3676)
Über Sporenabschnurung und Sporenabfallen bei den Pilzen. Flora 66: 249-271.
Zeliff, C. C. 1928. (3677)
Studies of the effects of certain organic and inorganic acids on Sclerotinia sclerotiorum. Trans. Amer. Microsp. Soc. 47: 468-473.
Zeller, S. M. 1920. (3678)
Humidity in relation to moisture imbibition by wood and to spore germination in wood. Ann. Mo. Bot. Gard. 7: 51-74.
————. 1926. (3679)
European canker of pomaceous fruit trees. Ore. Agr. Exp. Sta. Bull. 222, 1-52.
Zillig, H. and L. Neimeyer. 1929. (3680)
Beiträge zur Biologie und Bekämpfung des Roten Brenners (Pseudopeziza tracheiphila Müller-Thurgau) des Weinstocks. Arb. Biol. Reichsanst. Land- u. Forstw. 17: 1-66.
Zimmerman, A. 1924. (3681)
Sammelreferate über die Beziehungen zwischen Parasit und Wirtspflanze. Centbl. Bakt. 63: 106-124.
————. 1925. (3682)
Sammelreferate über die Beziehungen zwischen Parasit und Wirtspflanze. II. Die Uredineen. Centbl. Bakt. 65: 311-418.
Zimmerman, P. W. 1930. (3683)
Oxygen requirements for root growth of cuttings in water. Amer. Jour. Bot. 17: 844-861.
Zlatnik, A. 1925. (3684)
Les association de la végétation des Kranknôse et le ph. Prag.
Zobel, H. F. 1914. (3685)
Celery diseases. Gardeners' Chron. 55: 95.

Zon, R. G. 1904. (3686)
Effects of frost upon forest vegetation. Forest Quarterly 2: 14-21.
————. 1912. (3687)
Forests and water in the light of scientific investigation. Nat'l Waterways Comm. Final Report, 206-302.
Zundel, G. L. 1921. (3688)
The effects of treatment for bunt on the germination of wheat. Phytopath. 11: 469-484.
Zutavern. 1926. (3689)
Wurzelbrand bei Rüben. Deutsche Landw. Presse 53: 342.

ENVIRONMENTAL FACTOR INDEX

CONTENTS

XIII. MOISTURE RELATIONS

- A. General
- B. Air content
  1. General
  2. Favoring germination of spores
  3. Favoring infection
  4. Favoring disease
     - a. High humidity
     - b. Low humidity
- C. Desiccation—Influence on:
  1. Spore viability
  2. Tissue death
- D. Drouth—Influence on:
  1. Disease
  2. Physiological activities
- E. Evaporation and transpiration rates
- F. Irrigation practices—Influence on:
  1. Disease
  2. Physiological activities
- G. Soil drainage—Influence on:
  1. Disease
  2. Physiological activities
- H. Soil moisture content
  1. General relations
  2. High and excessive, favoring disease
  3. Low and deficient, favoring disease
  4. Optimum, for infection and disease

XIV. NUTRITIONAL FACTORS

(Those which aid or are harmful to the host plant or which increase or decrease disease resistance)

- A. General
- B. Faulty or malnutrition (excesses and deficiencies in general)
- C. Deficiencies (compounds in deficient quantity for normal host growth, or instances in which an addition was of aid in resisting disease)
  1. Boron
  2. Calcium
  3. Iron
  4. Magnesium
  5. Manganese
  6. Nitrogen
  7. Organic matter
  8. Phosphorus
  9. Potash
  10. Sulfur
- D. Excesses (compounds which are in excess for best host development or which brought about a lessening of disease resistance)
  1. Alkali
  2. Aluminum
  3. Ammonium sulfate
  4. Arsenic
  5. Boron
  6. Calcium
  7. Copper
  8. Iron
  9. Magnesium
  10. Manganese
  11. Nitrogen
  12. Organic matter
  13. Phosphorus
  14. Potash
  15. Sodium chloride
  16. Zinc

XV. OXYGEN
- A. General
- B. Air—Influence on:
  1. Physiological processes, etc.
  2. Spore germination and mycelial growth
- C. Soil

XVI. RAIN—Influence on:
- A. Spore production and distribution
- B. Infection
- C. Disease incidence
- D. Physiological and mechanical effects
- E. Spray injury

XVII. SOIL—Influence on:
- A. Fungous diseases
  1. Condition, physical
  2. Type, texture, etc.
- B. Physiological activities
  1. Condition, physical
  2. Type, texture, etc.

XVIII. SMOKE, VAPOR, DUST
- A. General (Including dust and soot injuries)
- B. Air (Fume, gas, smoke, and vapor injuries)
- C. Soil (Gas and waste injuries)

XIX. TEMPERATURE RELATIONS
- A. Air
  1. General effects
  2. Favoring disease, general
  3. High (above average), favoring infection and disease
  4. Low (below average), favoring infection and disease
  5. Cardinal temperatures for:
     a. Spore formation
     b. Spore germination
     c. Vegetative growth
     d. Infection
     e. Disease development
  6. Lethal temperatures for spores, mycelium, viruses, etc.
  7. Storage temperatures and disease or injury
- B. Soil
  1. General effects
  2. High (above average), favoring infection and disease
  3. Low (below average), favoring infection and disease
  4. Cardinal temperatures for infection and disease development
- C. Frost and low temperature injury
- D. Winter injury

XX. TIME FACTOR
(Viability, infectiveness, etc., of spores)

XXI. TOXINS AND CHEMOTROPIC RESPONSE

XXII. VENTILATION
- A. Air drainage, etc.
- B. Greenhouse and plant bed
- C. Storages

XXIII. WEATHER FACTORS
General

XXIV. WIND, as an agent of:
- A. Disease spread
- B. Drying and cooling
- C. Mechanical effect

I. ALTITUDE

7, 652, 653, 654, 708, 809, 978, 1050, 1213, 1253, 1706, 1727, 1872, 1989, 1990, 2248, 2283, 2329, 2399, 2654, 2661, 2777, 2899, 3134, 3158, 3330, 3331, 3512, 3514.

II. CARBON DIOXIDE

41, 192, 224, 371, 375, 376, 379, 380, 403, 426, 473, 477, 478, 504, 637, 716, 766, 943, 966, 967, 1014, 1045, 1095, 1204, 1481, 1484, 1514, 1517, 1545, 1753, 1783, 1871, 1960, 1964, 2015, 2016, 2270, 2371, 2372, 2373, 2528, 2646, 2751, 2965, 2976, 3164.

III. CLIMATE

Regional

47, 48, 55, 87, 150, 202, 263, 267, 283, 303, 311, 389, 427, 443, 445, 485, 506, 507, 514, 596, 597, 606, 608, 651, 656, 659, 708, 725, 815, 842, 844, 845, 848, 855, 879, 883, 900, 951, 983, 984, 987, 991, 1016, 1050, 1063, 1075, 1088, 1089, 1090, 1144, 1163, 1165, 1180, 1185, 1194, 1206, 1253, 1348, 1413, 1456, 1522, 1564, 1569, 1669, 1680, 1683, 1692, 1699, 1700, 1701, 1706, 1709, 1727, 1769, 1841, 1872, 1881, 1924, 1925, 1935, 1955, 2088, 2115, 2181, 2187, 2195, 2229, 2233, 2236, 2248, 2303, 2305a, 2376, 2380, 2395, 2396, 2399, 2429, 2468, 2469, 2476, 2479, 2512, 2533, 2536, 2550, 2552, 2575, 2576, 2583, 2586, 2594, 2603, 2612, 2613, 2668, 2678, 2689, 2726, 2729, 2774a, 2827, 2857, 2873, 2899, 2916, 2919, 2945, 2946, 2960, 2973, 3042, 3089, 3124, 3127, 3134, 3136, 3200, 3259, 3267, 3293, 3295, 3314, 3360, 3382, 3414, 3424, 3425, 3430, 3431, 3434, 3435, 3464, 3539, 3636, 3669, 3687.

IV. CONTROL PRACTICES—Injury from:

A. General treatments

126, 190, 586, 625, 730, 903, 1047, 1371, 1428, 1735, 1979, 2222, 2750, 3187, 3276, 3340, 3564.

B. Arsenic-containing compounds

73, 147, 148, 215, 586, 730, 791, 828, 830, 862, 901, 902, 971, 972, 1061, 1136, 1147, 1201, 1244, 1326, 1327, 1362, 1364, 1368, 1432, 1506, 1669, 1712, 1731, 1750, 1758, 2444, 2455, 2733, 2756, 2823, 3011, 3228, 3229, 3231, 3232, 3309, 3454, 3455, 3644, 3664.

C. Copper-containing compounds

41, 74, 141, 142, 143, 193, 291, 292, 369, 455, 559, 586, 677, 707, 791, 811, 827, 831, 886, 902, 905, 906, 941, 1204, 1388, 1525, 1911, 1939, 2079, 2307, 2416, 2532, 2623, 2624, 2657, 2658, 2857, 3062, 3149, 3217, 3441, 3490, 3557, 3663, 3666.

D. Oil-containing compounds

74, 359, 363, 441, 739, 740, 873, 968, 1137, 1743, 1780, 1781, 3406, 3626, 3627, 3667.

E. Sulphur-containing compounds

291, 463, 586, 707, 827, 829, 882, 886, 941, 1012, 1137, 1525, 1529, 1911, 2049, 2079, 2296, 2297, 2658, 2800, 2917, 2974, 3112, 3151, 3407, 3441, 3648, 3666.

F. Fumigation compounds

457, 1207, 1248, 1274, 1782, 1977.

V. DEW and FOG

42, 108, 281, 284, 368, 431, 508, 514, 544, 579, 580, 581, 671, 709, 711, 783, 876, 881, 883, 884, 939, 983, 984, 991, 1005, 1028, 1117, 1380, 1415, 1423, 1600, 1779, 1848, 1885, 2140, 2148, 2262, 2387, 2388, 2473, 2512, 2606, 2618, 2634, 2642, 2661, 2745, 2774, 2776, 2899, 2919, 2973, 2989, 3011, 3012, 3028, 3041, 3042, 3044, 3105, 3130, 3159, 3186, 3371, 3405, 3442, 3475, 3511, 3542, 3619, 3644.

VI. ELECTRICAL PHENOMENA

Lighting, electric current, and static

277, 681, 1316, 1677, 1693, 1694, 1695, 1711, 1713, 1980, 2250, 2265, 2298, 2325, 2529, 2609, 2625, 2638, 2683, 2912, 2921, 2952, 2953, 2954, 3075, 3098, 3117a, 3132, 3141, 3165, 3169, 3177, 3182, 3257, 3418, 3427.

VII. ENVIRONMENT

General

184, 249, 288, 387, 389, 544, 545, 550, 608, 694, 741, 804, 809, 813, 814, 937, 939, 940, 963, 974, 979, 1178, 1203, 1241, 1315, 1372, 1433, 1436, 1524, 1609, 1680, 1681, 1813, 1833, 1963, 1989, 1999, 2129, 2198, 2261, 2265, 2395, 2397, 2398, 2412, 2441, 2468, 2470, 2475, 2486, 2544, 2549, 2604, 2643, 2704, 2960, 2978, 3028, 3127, 3387, 3411, 3460, 3462, 3537, 3681, 3687.

VIII. EXPOSURE

Site, slope, position, etc.

7, 47, 155, 189, 258, 265, 384, 468, 674, 734, 881, 897, 1050, 1213, 1261, 1336, 1337, 1415, 1417, 1471, 1564, 1680, 1727, 1995, 2144, 2149, 2198, 2283, 2380, 2399, 2489, 2512, 2642, 2658, 2899, 3094, 3100, 3167, 3180, 3186, 3211, 3239, 3346, 3399, 3443, 3485, 3512, 3613, 3616, 3686.

IX. HAIL, ICE, and SNOW

92, 210, 257, 465, 519, 770, 816, 998, 1048, 1323, 1370, 1487, 1505, 1723, 1914, 1984, 2062, 2265, 2280, 2325, 2493, 2509, 2537, 2620, 2683, 2756, 2859, 2872, 2874, 2923, 2955, 3101, 3120, 3153, 3156, 3198, 3403, 3414, 3501.

X. HOST CHARACTERISTICS

A. Chemical and inherent peculiarities

2, 135, 184a, 229, 261, 386, 554, 605, 606, 633, 762, 763, 815, 838, 920, 979, 1023, 1025, 1052, 1053, 1146, 1197, 1357, 1413, 1451, 1687, 1690, 1752, 1768, 2005, 2042, 2061, 2181, 2220, 2246, 2295, 2429, 2436, 2437, 2439, 2441, 2472, 2572, 2646, 3032, 3066, 3200, 3202, 3301, 3345, 3382, 3391, 3432, 3460, 3463, 3472, 3599, 3675, 3682.

B. Growth stage

Age, maturity, rate, etc.

7, 79, 167, 177, 189, 219, 249, 260, 265, 308, 317, 369, 381, 385, 407, 444, 454, 463, 479, 492, 507, 508, 521, 628, 636, 702, 747, 759, 762, 794, 804, 805, 806, 879, 880, 885, 929, 985, 987, 988, 990, 1009, 1018, 1089, 1118, 1165, 1168, 1180, 1197, 1214, 1299, 1312, 1317, 1355, 1379, 1412, 1432, 1436, 1524, 1530, 1569, 1584, 1603, 1631, 1669, 1670, 1680, 1687, 1701, 1709, 1727, 1728, 1767, 1770, 1816, 1825, 1840, 1853, 1906, 1945, 1974, 2087, 2093, 2123, 2128, 2134, 2158, 2161, 2171, 2198, 2232, 2250, 2274, 2292, 2299, 2305, 2373, 2377, 2397, 2399, 2401, 2436, 2440, 2470, 2473, 2500, 2503, 2510, 2512, 2529, 2535, 2549, 2552, 2559, 2576, 2602, 2639, 2642, 2660, 2677, 2689, 2707, 2712, 2717, 2719, 2730, 2734, 2749, 2754, 2770, 2774a, 2776, 2811, 2820, 2828, 2846, 2849, 2855, 2897, 2900, 2909, 2928, 2966, 2976, 2978, 3010, 3053, 3054, 3088, 3104, 3110, 3127, 3134, 3149, 3167, 3178, 3179, 3180, 3185, 3202, 3258, 3270, 3280, 3295, 3299, 3301, 3337, 3352, 3364, 3391, 3395, 3409, 3425, 3430, 3431, 3437, 3443, 3464, 3479, 3485, 3509, 3514, 3532, 3575, 3611, 3620, 3682.

C. Vigorous host growth favoring disease

107, 108, 184, 203, 282, 365, 446, 488, 511, 520, 565, 589, 617, 676, 813, 870, 918, 935, 939, 973, 1034, 1035, 1041, 1154, 1164, 1184, 1195, 1210, 1215, 1257, 1421, 1582, 1592, 1597, 1636, 1675, 1676, 1773, 1835, 2005, 2050, 2087, 2240, 2333, 2367, 2439, 2457, 2464, 2468, 2470, 2473, 2474, 2475, 2510, 2572, 2589, 2637, 2641, 2646, 2673, 2686, 2707, 2712, 2718, 2719, 2748, 2763, 2765, 2788, 2812, 2966, 3092, 3093, 3104, 3106, 3107, 3189, 3239, 3289, 3316, 3343, 3380, 3443, 3460, 3466, 3631, 3643.

D. Weak host growth favoring disease

82, 84, 90, 105, 119, 124, 125, 139, 166, 257, 288, 298, 445, 450, 527, 537, 579, 707, 711, 739, 757, 800, 853, 859, 870, 897, 930, 935, 937, 938, 940, 965, 1032, 1033, 1063, 1111, 1112, 1123, 1190, 1191, 1213, 1244, 1249, 1351, 1392, 1434, 1515, 1516, 1686, 1757, 1854, 1875, 1932, 2023, 2145, 2236, 2258, 2370, 2378, 2396, 2403, 2408, 2458, 2601, 2602, 2656, 2659, 2712, 2728, 2744, 2745, 2766, 2771, 2810, 2813, 2984, 3008, 3045, 3071, 3089, 3158, 3180, 3212, 3213, 3305, 3343, 3467, 3468, 3484, 3526, 3611.

XI. HYDROGEN-ION RELATIONS

A. General

8, 98, 229, 343, 344, 516, 554, 598, 813, 841, 859, 934, 970, 1254, 1362, 1776, 1803, 1814, 1897, 1898, 1973, 2119, 2139, 2467, 2492, 2555, 2665, 2790, 2825, 2971, 2995, 3144, 3254,

B. Regulating disease

1. Acid soil reaction favoring disease

50, 51, 99, 102, 117, 222, 320, 432, 503, 551, 561, 562, 576, 603, 611, 616, 635, 689, 773, 912, 934, 1020, 1023, 1038, 1105, 1181, 1193, 1271, 1288, 1344, 1408, 1477, 1606, 1625, 1626, 1653, 1772, 1819, 1880, 1901, 1913, 1919, 2034, 2058, 2117, 2118, 2124, 2204, 2295, 2301, 2314, 2355, 2364, 2370, 2483, 2593, 2642, 2724, 2790, 2860, 2862, 2904, 2914, 2972, 3238, 3254, 3274, 3344, 3348, 3364, 3376, 3417, 3467, 3495, 3528, 3587

2. Alkaline soil reaction favoring disease

72, 279, 347, 486, 562, 610, 627, 640, 668, 792, 800, 859, 890, 914, 915, 917, 1051, 1104, 1106, 1119, 1131, 1258, 1324, 1416, 1453, 1533, 1621, 1651, 1691, 1763, 1765, 1821, 2052, 2053, 2054, 2056, 2081, 2082, 2197, 2261, 2417, 2439, 2561, 2642, 2780, 2821, 2827, 2850, 2852, 2907, 2971, 2982, 2983, 3191, 3218, 3254, 3416, 3547, 3548, 3549, 3557, 3607.

3. Cardinal soil reactions for disease development

56, 59, 77, 102, 117, 392, 688, 793, 915, 916, 917, 1051, 1056, 1104, 1106, 1131, 1132, 1243, 1490, 1492, 1534, 1650, 1651, 1712a, 1918, 2034, 2044, 2046, 2047, 2057, 2175, 2190, 2314, 2414, 2542, 2724, 2827, 2972, 2977, 2980, 3248, 3252, 3255, 3416, 3516, 3519, 3528, 3529, 3650, 3689.

C. Regulating growth

1. Cardinal reaction of medium for growth of fungi

4, 16, 61, 99, 135, 214, 229, 333, 343, 344, 397, 400, 401, 410, 411, 414, 415, 417, 470, 523, 547, 638, 646, 714, 735, 774, 779, 818, 839, 840, 863, 866, 867, 912, 995, 996, 997, 1073, 1076, 1077, 1166, 1184, 1243, 1386, 1401, 1421, 1442, 1489, 1491, 1492, 1550, 1576, 1589, 1602, 1645, 1748, 1779, 1789, 1805, 1807, 1841, 1867, 1884, 1887, 1889, 1909, 1911a, 1912, 1915, 1917, 1960, 1961, 1981, 1998, 2006, 2027, 2047, 2058, 2069, 2070, 2071, 2108, 2109, 2110, 2154, 2178, 2210, 2211, 2213, 2216, 2236, 2268, 2316, 2320, 2321, 2345, 2346, 2347, 2348, 2351, 2352, 2376, 2463, 2514, 2525, 2528, 2538, 2542, 2545, 2546, 2587, 2640, 2672, 2707, 2762, 2798, 2799, 2833, 2850, 2852, 2914, 2915, 2931, 2972, 2979, 2980, 3013, 3032, 3114, 3122, 3197, 3223, 3248, 3252, 3254, 3273, 3296, 3306, 3322, 3324, 3326, 3362, 3416, 3434, 3450, 3477, 3478, 3482, 3488, 3489, 3516, 3547, 3569, 3571, 3635, 3662, 3677, 3679.

2. Cardinal reaction of medium for plants other than fungi

19, 57, 102, 315, 616, 667, 773, 782, 793, 1056, 1104, 1193, 1240, 1467, 1493, 1534, 1712a, 1843, 1962, 2046, 2094, 2207, 2817, 2977, 2980, 3244, 3383, 3397, 3458, 3517, 3550, 3552.

3. Plant growth and distribution

100, 101, 103, 116, 118, 237, 542, 603, 604, 667, 841, 1158, 1222, 1240, 1443, 1772, 1787, 2031, 2191, 2295, 2301, 2389, 2402, 2560, 2806, 2807, 2808, 2818, 3238, 3348, 3365, 3417, 3550, 3551, 3552, 3553, 3554, 3587, 3684.

XII. LIGHT

A. General effects

82, 136, 184, 214, 223, 233, 260, 527, 529, 534, 544, 575, 635, 638, 644, 684, 698, 714, 759, 761, 809, 813, 815, 833, 871, 877, 878, 942, 970, 1055, 1092, 1093, 1116, 1168, 1174, 1176, 1252, 1269, 1300, 1319, 1338, 1371, 1473, 1525, 1530, 1539, 1569, 1648, 1728, 1776, 1813, 1887, 1890, 1896, 1904, 1958, 1982, 2014, 2043, 2161, 2262, 2265, 2325, 2387, 2440, 2447, 2456, 2463, 2472, 2645, 2771, 2774, 2774a, 2777, 2812, 2851, 2901, 2902, 2949, 2978, 2997, 3051, 3065, 3109, 3110, 3128, 3142, 3167, 3179, 3215, 3330, 3331, 3346, 3411, 3414, 3460, 3475, 3495, 3515, 3530, 3642, 3682.

B. Deficiency effects (shade, darkness, etc.)

68, 122, 124, 125, 140, 184a, 286, 385, 386, 393, 394, 513, 585, 745, 815a, 835, 885, 930, 950, 1011, 1032, 1056a, 1094, 1110, 1119, 1142, 1170, 1175, 1204, 1239, 1249, 1259, 1260, 1278, 1339, 1415, 1537, 1569, 1666, 1764, 1808, 1885, 1898, 1904, 1989, 2075, 2308, 2367, 2379, 2387, 2502, 2535, 2616, 2646, 2789, 2811, 2976, 3028, 3042, 3090, 3100, 3130, 3146, 3213, 3216, 3335, 3466, 3613.

C. Excess effects (bright sunlight, duration, etc.)

47, 132, 143, 236, 307, 358, 380, 385, 494a, 509, 510, 537, 543, 586, 626, 670, 727, 777, 808, 947, 983, 988, 989, 990, 992, 1025, 1076, 1094, 1113, 1156, 1164, 1165, 1262, 1294, 1317, 1336, 1337, 1393, 1440, 1473, 1482, 1559, 1814, 1849, 1865, 1907, 1924, 1968, 1969, 1985, 1996, 2010, 2092, 2102, 2107, 2111, 2208, 2282, 2315, 2329, 2366, 2380, 2415, 2472, 2557, 2558, 2618, 2639, 2658, 2683, 2743, 2750, 2800, 2866, 2916, 2947, 2951, 2973, 3091, 3096, 3109, 3168, 3172, 3173, 3176, 3178, 3211, 3290, 3336, 3448, 3494, 3657.

D. Quality relations

529, 700, 747, 808, 1525, 1941, 1989, 1990, 2004, 2247, 2630, 2717, 3035a, 3463.

XIII. MOISTURE RELATIONS

A. General

31, 68, 123, 197, 298, 427, 434, 479, 488, 492, 496, 527, 584, 585, 594, 596, 597, 599, 671, 789, 794, 800, 813, 974, 984, 985, 991, 1041, 1079, 1081, 1110, 1171, 1370, 1380, 1440, 1459, 1470, 1471, 1479, 1525, 1727, 1728, 1776, 1813, 1815, 1893, 1894, 1925, 2019, 2028, 2164, 2285, 2295, 2325, 2432, 2474, 2475, 2513, 2634, 2643, 2902, 3087, 3096, 3100, 3109, 3145, 3247, 3264, 3268.

B. Air content

1. General

48, 58, 184, 200, 351, 380, 583, 587, 629, 691, 698, 760, 809, 815, 821, 824, 849, 896, 942, 971, 972, 974, 984, 991, 1028, 1174, 1269, 1307, 1308, 1538, 1547, 1689, 1690, 1946, 2090, 2091, 2252, 2262, 2265, 2396, 2397, 2440, 2447, 2466, 2468, 2479, 2489, 2520, 2576, 2596, 2597, 2649, 2774a, 2804, 2905, 2945, 2957, 2960, 3044, 3091, 3104, 3133, 3134, 3179, 3196, 3269, 3327, 3411, 3474, 3608, 3609, 3645, 3658, 3682.

2. Favoring germination of spores
   89, 108, 204, 400, 508, 514, 544, 580, 618, 766, 789, 794, 822, 876, 984, 1093, 1110, 1294, 1476, 1600, 1848, 1899, 1900, 2004, 2051, 2168, 2169, 2334, 2336, 2454, 2469, 2471, 2612, 2634, 2918, 2919, 3040, 3041, 3096, 3130, 3327, 3328, 3442, 3502, 3678.
3. Favoring infection
   12, 125, 267, 286, 346, 400, 470, 544, 719, 766, 884, 1028, 1032, 1093, 1117, 1565, 1568, 1728, 1733, 1854, 1861, 1887, 2236, 2438, 2448, 2463, 2473, 2497, 2563, 2576, 2594, 2614, 2663, 2763, 2788, 2851, 2875, 2882, 3003, 3005, 3006, 3007, 3044, 3194, 3245, 3287, 3318, 3442, 3502, 3568, 3613, 3665.
4. Favoring disease
   a. High
      13, 42, 47, 82, 94, 122, 131, 213, 231, 234, 241, 265, 355, 365, 368, 376, 413, 451, 460, 491, 514, 555, 589, 645, 696, 697, 719, 727, 751, 811, 823, 848, 883, 884, 885, 887, 929, 950, 1008, 1065, 1162, 1204, 1208, 1249, 1257, 1321, 1376, 1463, 1571, 1666, 1668, 1675, 1705, 1722, 1725, 1743, 1747, 1755, 1808, 1857, 1862, 1864, 2142, 2227, 2229, 2234, 2256, 2299, 2334, 2359, 2379, 2392, 2394, 2424, 2447, 2450, 2456, 2467, 2523, 2527, 2531, 2536, 2574, 2580, 2592, 2612, 2618, 2658, 2668, 2711, 2731, 2747, 2763, 2768, 2774, 2820, 2876, 2879, 2902, 2916, 2918, 2947, 2967, 2981, 3042, 3044, 3054, 3095, 3107, 3110, 3112, 3124, 3279, 3289, 3295, 3358, 3395, 3409, 3557, 3563, 3592, 3638.
   b. Low
      48, 422, 494a, 595, 596, 890, 1180, 1840, 1950, 1990, 2948, 2949, 2976, 2997, 3015, 3356.

C. Desiccation—Influence on:
1. Spore viability
   311, 408, 788, 849, 1076, 1134, 1350, 2051, 2111, 2164, 2210, 2262, 2304, 3091, 3096, 3308, 3421.
2. Tissue death
   132, 185, 293, 297, 355, 405, 494a. 497, 498, 706, 1062, 1097, 1237, 1317, 1318, 1439, 2261, 2329, 2515, 2655, 2814, 3153, 3171, 3185, 3560, 3570.

D. Drouth—Influence on:
1. Disease
   68, 90, 200, 257, 311, 407, 554, 555, 727, 832, 834, 846, 937, 939, 1056, 1163, 1190, 1242, 1255, 1285, 1381, 1400, 1459, 1482, 1496, 1509, 1582, 1623, 1841, 1874, 2028, 2033, 2115, 2232, 2289, 2476, 2585, 2602, 2690, 2775, 2961, 3015, 3068, 3085, 3150, 3159, 3180, 3183, 3253, 3310, 3337, 3359, 3523, 3526.
2. Physiological activities
   36, 93, 121, 139, 164, 188, 269, 352, 353, 367, 380, 382, 383, 482, 484, 492, 532, 543, 583, 584, 585, 624, 669, 704, 705, 706, 707, 722, 723, 739, 987, 988, 989, 1003, 1018, 1063, 1064, 1081, 1116, 1144, 1171, 1219, 1266, 1323, 1325, 1393, 1414, 1425, 1440, 1482, 1530, 1532, 1669, 1771, 1863, 1940, 2037, 2136, 2141, 2156, 2186, 2209, 2225, 2414, 2443, 2449, 2484, 2515, 2534, 2578, 2591, 2618, 2619, 2626, 2662, 2681, 2682, 2683, 2792, 2830, 3038, 3046, 3087, 3142, 3168, 3171, 3176, 3346, 3396, 3414, 3476, 3484, 3618, 3667, 3674.

E. Evaporation and transpiration rates
   122, 123, 132, 168, 173, 176, 242, 244, 297, 355, 494a, 497, 498, 509, 510, 543, 592, 595, 650, 670, 899, 946, 1202, 1237, 1318, 1370, 1447, 1470, 1471, 1671, 1678, 1935, 1968, 1969, 2090, 2092, 2145, 2148, 2182, 2183, 2184, 2209, 2283, 2294, 2308, 2315, 2322, 2333, 2367, 2380, 2457, 2515, 2655, 2703, 2882, 2945, 2946, 2948, 3147, 3168, 3179, 3181, 3214, 3222, 3333,3476, 3484, 3514, 3555, 3612, 3649.

F. Irrigation practices—Influence on:

1. Disease

257, 311, 351, 444, 451, 645, 676, 713, 719, 1060, 1080, 1895, 1986, 1991, 2417, 2523, 2719, 2961, 3065, 3090, 3145, 3256, 3534.

2. Physiological activities

155, 186, 379, 383, 385, 433, 435, 454, 669, 692, 702, 705, 745, 985, 989, 990, 1238, 1367, 1470, 1511, 1514, 1518, 1536, 2002, 2011, 2093, 2241, 2382, 2416, 2480, 2669, 2693, 2694, 2735, 2840, 2998, 3224, 3258, 3289, 3484.

G. Soil drainage—Influence on:

1. Disease

70, 140, 258, 284, 444, 453, 454, 589, 641, 642, 645, 751, 802, 870, 881, 937, 940, 1089, 1122, 1190, 1278, 1407, 1477, 1515, 1537, 1643, 2028, 2098, 2157, 2172, 2230, 2263, 2417, 2427, 2464, 2467, 2667, 2673, 2742, 2766, 2990, 3142, 3167, 3191, 3245, 3361, 3368, 3373, 3467, 3473, 3555, 3558, 3628, 3643.

2. Physiological activities

369, 435, 464, 536, 852, 923, 1060, 1126, 1139, 1140, 1157, 1197, 1213, 1349, 1426, 1445, 1495, 1716, 1866, 2096, 2383, 2451, 2621, 2683, 2720, 2750, 2840, 2924, 3045, 3086, 3113, 3240, 3291, 3317, 3349, 3399, 3616.

H. Soil moisture content

1. General relations

54, 67, 120, 138, 242, 266, 280, 370, 385, 430, 437, 438, 472, 481, 496, 513, 545, 568, 569, 598, 702, 748, 859, 889, 890, 903, 934, 1003, 1026, 1079, 1130, 1154, 1166, 1168, 1181, 1184, 1220, 1242, 1264, 1287, 1309, 1392, 1407, 1470, 1471, 1500, 1508, 1514, 1519, 1521, 1536, 1569, 1586, 1594, 1629, 1637, 1638, 1680, 1724, 1762, 1871, 1940, 2056, 2092, 2163, 2429, 2447, 2554, 2601, 2642, 2643, 2651, 2653, 2683, 2712, 2735, 2746, 2765, 2777, 2814, 2815, 2816, 2961, 3046, 3086, 3094, 3104, 3131, 3136, 3154, 3173, 3179, 3184, 3207, 3208, 3214, 3241, 3330, 3337, 3339, 3392, 3424, 3431, 3481, 3495, 3515, 3533, 3642.

2. High and excessive, favoring disease

22, 70, 120, 122, 124, 129, 154, 164, 170, 211, 227, 231, 257, 258, 279, 312, 356, 421, 444, 453, 454, 469, 479, 491, 536, 554, 581, 587, 692, 693, 694, 697, 719, 727, 731, 781, 888, 937, 940, 973, 992, 995, 996, 997, 1006, 1018, 1122, 1124, 1141, 1149, 1167, 1172, 1208, 1220, 1223, 1239, 1321, 1377, 1394, 1402, 1495, 1506, 1520, 1536, 1543, 1544, 1595, 1597, 1603, 1621, 1648, 1684, 1716, 1763, 1765, 1865, 1870, 1875, 1907, 1908, 1921, 1991, 1995, 2011, 2018, 2067, 2103, 2123, 2130, 2131, 2148, 2157, 2165, 2230, 2241, 2243, 2303, 2383, 2438, 2449, 2450, 2662, 2677, 2682, 2720, 2748, 2751, 2850, 2950, 3004, 3008, 3045, 3072, 3076, 3113, 3182, 3199, 3246, 3255, 3274, 3315, 3316, 3358, 3361, 3375, 3385, 3427, 3445, 3467, 3468, 3479, 3494, 3519, 3523, 3543, 3555, 3563 3641, 3643.

3. Low and deficient, favoring disease

7, 83, 131, 161, 168, 173, 174, 176, 260, 354, 358, 493, 553, 554, 583, 596, 675, 705, 761, 832, 930, 989, 1061, 1063, 1080, 1116, 1141, 1144, 1156, 1163, 1370, 1371, 1400, 1429, 1599, 1669, 1779, 1840, 1903, 1936, 1937, 1938, 2011, 2126, 2135, 2136, 2143, 2144, 2145, 2182, 2183, 2184, 2209, 2588, 2652, 2682, 2718, 2825, 2826, 2910, 3042, 3043, 3184, 3212, 3222, 3251, 3476, 3484, 3534, 3651.

4. Optimum, for infection and disease

168, 173, 545, 756, 757, 761, 838, 915, 935, 1111, 1149, 1196, 1308, 1373, 1543, 1544, 1596, 1630, 1638, 1824, 1895, 1966, 2131, 2133, 2158, 2159, 2231, 2232, 2426, 2435, 2538, 2539, 2540, 2587, 2594, 2705, 2707, 3183, 3297, 3302, 3305, 3381, 3425, 3479, 3480, 3507, 3519, 3566, 3646.

XIV. NUTRITIONAL FACTORS

(Those which aid or are harmful to the host plant or which increase or decrease disease resistance.)

A General

49, 108, 151, 163, 240, 248, 258, 320, 395, 396, 434, 440, 445, 513, 515, 563, 602, 608, 610, 618, 656, 676, 715, 772, 813, 850, 852, 877, 878, 942, 947, 987, 1000, 1033, 1035, 1086, 1089, 1101, 1140, 1195, 1197, 1210, 1214, 1238, 1242, 1258, 1271, 1272, 1365, 1366, 1367, 1371, 1392, 1407, 1413, 1415, 1418, 1432, 1436, 1438, 1453, 1454, 1503, 1516, 1587, 1592, 1649, 1762, 1776, 1797, 1809, 1813, 1816, 1819, 1834, 1836, 1838, 1850, 1851, 1852, 1890, 1896, 1907, 1910, 2001, 2013, 2014, 2038, 2050, 2060, 2076, 2089, 2093, 2158, 2160, 2183, 2215, 2226, 2238, 2258, 2274, 2295, 2325, 2331, 2389, 2410, 2411, 2439, 2449, 2467, 2472, 2510, 2572, 2601, 2613, 2621, 2643, 2646, 2700, 2714, 2715, 2744, 2851, 2906, 3001, 3033, 3043, 3046, 3072, 3077, 3104, 3106, 3107, 3127, 3128, 3146, 3156, 3167, 3201, 3214, 3219, 3224, 3239, 3281, 3320, 3343, 3344, 3381, 3382, 3423, 3450, 3465, 3495, 3518, 3628, 3642, 3682.

B Faulty or mal-nutrition (excesses and deficiencies in general)

30, 36, 51, 62, 70, 93, 104, 132, 149, 236, 274, 283, 338, 353, 364, 453, 495, 528, 558, 585, 611, 615, 631, 632, 664, 665, 689, 737, 802, 813, 832, 833, 836, 870, 881, 930, 937, 940, 944, 969, 1003, 1006, 1009, 1020, 1063, 1081, 1138, 1157, 1160, 1187, 1191, 1213, 1232, 1234, 1236, 1289, 1295, 1342 1349, 1351, 1393, 1411, 1416, 1434, 1448, 1449, 1454, 1477, 1499, 1525, 1580, 1613, 1676, 1716, 1815, 1821, 1851, 1880, 1898, 1930, 1959, 2085, 2096, 2117, 2201, 2265, 2299, 2370, 2416, 2446, 2484, 2498, 2541, 2557, 2616, 2665, 2676, 2683, 2721, 2748, 2765, 2766, 2778, 2854, 2867, 3068, 3142, 3154, 3155, 3170, 3230, 3235, 3380, 3409a, 3427, 3483, 3484, 3545, 3546, 3607, 3621.

C. Deficiencies (compounds in deficient quantity for normal host growth or instances in which an addition was of aid in resisting disease)

1. Boron

1234, 1236, 1633, 1634, 2147, 3060, 3470.

2. Calcium

3, 103, 211, 243, 262, 418, 420, 432, 583, 589, 619, 720, 721, 773, 850, 893, 969, 1008, 1044, 1066, 1067, 1083, 1105, 1135, 1181, 1200, 1232, 1235, 1237, 1289, 1333, 1340, 1408, 1474, 1504, 1625, 1626, 1741, 1959, 2031, 2034, 2085, 2121, 2146, 2228, 2253, 2301, 2446, 2493, 2494, 2497, 2572, 2593, 2664, 2724, 2911, 2990, 3057, 3144, 3216, 3370, 3584, 3585.

3. Iron

96, 149, 158, 435, 436, 515, 553, 627, 655, 706, 710, 795, 801, 920, 964, 1082, 1120, 1126, 1128, 1129, 1130, 1135, 1151, 1211, 1228, 1494, 1624, 1625, 1626, 1716, 1800, 1823, 1838, 1898, 2011, 2045, 2081, 2083, 2094, 2122, 2220, 2319, 2439, 2561, 2589, 2626, 2700, 2722, 2795, 2796, 2982, 3060, 3244, 3457, 3540, 3541, 3606.

4. Magnesium

1083, 1084, 1085, 1135, 1525, 1613, 1652, 1933, 1971, 2011, 2081, 2146, 2223, 2306, 3060, 3600, 3604.

5. Manganese

77, 418, 1121, 1151, 1448, 1534, 1712a, 1886, 2011, 2021, 2081, 2122, 2125, 2137, 2199, 2496, 2699, 2721, 2821, 2822, 2891, 3060, 3604, 3605.

6. Nitrogen

236, 287, 288, 385, 495, 603, 990, 1135, 1195, 1365, 1495, 1497, 1498, 1525, 1580, 1823, 1926, 1927, 2008, 2011, 2188, 2189, 2242, 2253, 2364, 2425, 2458, 2671, 2683, 2728, 2845, 2855, 2907a, 2994, 3060, 3111, 3207, 3208, 3256, 3286, 3292, 3333, 3369, 3370, 3414, 3446, 3456, 3596, 3597, 3673.

7. Organic matter

299, 348, 349, 354, 486, 562, 675, 706, 854, 915, 999, 1002, 1042, 1141, 1160, 1318, 1761, 2046, 2085, 2096, 2135, 2143, 2144, 2145, 2245, 2394, 2764, 2891, 2994, 3256, 3467, 3540.

8. Phosphorus

212, 229, 394, 606, 656, 690, 715, 772, 1009, 1074, 1135, 1180, 1195, 1212, 1229, 1332, 1333, 1351, 1370, 1417, 1419, 1455, 1474, 1536, 1580, 1609, 1932, 2040, 2041, 2106, 2119, 2120, 2253, 2368, 2446, 2500, 2561, 2712, 2877, 2907, 3060, 3111, 3188, 3240, 3284, 3381, 3390, 3557, 3596, 3597.

9. Potash

72, 218, 227, 236, 238, 262, 276, 299, 300, 385, 389, 394, 552, 561, 583, 690, 772, 832, 965, 975, 990, 1050, 1074, 1085, 1135, 1182, 1195, 1229, 1271, 1329, 1351, 1417, 1488, 1525, 1535, 1577, 1579, 1580, 1613, 1752, 1794, 1853, 1885, 1898, 1910, 1940, 1942, 1976, 2008, 2020, 2038, 2085, 2146, 2196, 2253, 2271, 2274, 2306, 2321, 2341, 2370, 2385, 2481, 2500, 2581, 2588, 2608, 2615, 2674, 2681, 2683, 2749, 2781, 2787, 2845, 2853, 2855, 2885, 2886, 2889, 2907, 2907a, 2908, 2922, 3048, 3060, 3111, 3121, 3125, 3203, 3212, 3222, 3240, 3379, 3414, 3445, 3446, 3520, 3595, 3596, 3597, 3601, 3604, 3631, 3648, 3650.

10. Sulfur

859, 916, 1084, 1135, 1243, 1258, 1823, 2052, 2053, 2081, 2122, 2538, 2542, 2971, 3060, 3544.

D. Excesses (compounds which were in excess for best host development or which brought about a lessening of disease resistance)

1. Alkali

147, 148, 395, 396, 428, 517, 692, 797, 854, 1223, 1230, 1231, 1287, 1370, 1371, 1445, 1506, 1726, 1741, 1742, 1953, 1954, 1956, 1973, 2011, 2046, 2382, 2411, 2480, 2631, 2664, 3046, 3484.

2. Aluminum

3, 57, 98, 162, 253, 254, 271, 432, 502, 604, 616, 665, 852, 1020, 1279, 1284, 1331, 1332, 1333, 1467, 1474, 1475, 1653, 1654, 1720, 1744, 1810, 1811, 1880, 1919, 2000, 2105, 2117, 2118, 2119, 2121, 2138, 2139, 2204, 2214, 2260, 2321, 2389, 2506, 2773, 2782, 2783, 2977, 2991, 3059, 3161, 3162, 3394, 3655.

3. Ammonium sulfate

561, 1044, 1060, 2260, 2370, 2783, 2784.

4. Arsenic

43, 336, 337, 533, 647, 1029a, 1225, 1227, 1574, 1785, 1975, 2255, 2356, 2507, 2863, 2878, 3226, 3228, 3625.

5. Boron

26, 250, 252, 316, 336, 337, 339, 402, 600, 612, 614, 620, 621, 623, 769, 836, 1233, 1345, 1468, 1507, 1633, 1717, 1740, 1785, 2251, 2264, 2310, 2328, 2462, 2530, 2890, 2992, 2993, 3227, 3234, 3402, 3470.

6. Calcium

37, 69, 72, 78, 111, 127, 128, 149, 206, 268, 347, 356, 433, 445, 515, 522, 536, 553, 562, 640, 678, 694, 706, 707, 710, 736, 819, 920, 932, 964, 1004, 1015, 1021, 1051, 1082, 1126, 1127, 1128, 1129, 1130, 1158, 1195, 1211, 1231, 1243, 1324, 1328, 1362, 1409, 1446, 1450, 1508, 1651, 1712a, 1716, 1765, 1800, 1823, 1851, 1878, 1898, 1943, 2011, 2021, 2045, 2057, 2081, 2082, 2083, 2116, 2180, 2225, 2408, 2414, 2538, 2555, 2591, 2600, 2615, 2665, 2683, 2697, 2722, 2723, 2781, 2821. 2869, 2891, 3388, 3393, 3449, 3457, 3518, 3544, 3547, 3548, 3549, 3558, 3650, 3666.

7. Copper

193, 335, 337, 548, 599a, 622, 647, 662, 665, 1014, 1205, 1340, 1352, 1587, 1717, 1785, 1898, 2036, 2193, 2295, 2488, 2507, 2579, 2810, 2893, 2895, 2987, 3119, 3341, 3388, 3559.

8. Iron

38, 98, 342, 420, 503, 647, 655, 852, 945, 1223, 1279, 1330, 1474, 1475, 1744, 2035, 2048, 2080, 2099, 2105, 2260, 2487, 2782, 2930, 2991, 3118, 3332.

9. Magnesium

666, 852, 1108, 1223, 1280, 1943, 2983, 3401

10. Manganese

57, 112, 180, 335, 337, 502, 664, 729, 852, 904, 1044, 1127, 1223, 1224, 1572, 1624, 1625, 1737, 1738, 1739, 1744, 1777, 1823, 1944, 2011, 2100, 2116, 2117, 2118, 2124, 2260, 2504. 2506, 2646, 2713, 2995, 2996, 3161, 3332, 3400, 3540, 3565, 3593.

11. Nitrogen

8, 46, 136, 239, 240, 278, 298, 351, 370, 387, 389, 394, 445, 454, 500, 528, 552, 589, 605, 606, 656, 663, 706, 732, 745, 772, 832, 835, 853, 923, 973, 1000, 1001, 1003, 1009, 1017, 1025, 1074, 1195, 1210, 1229, 1271, 1278, 1324, 1363, 1366, 1367, 1368, 1417, 1450, 1499, 1510, 1536, 1551, 1580, 1676, 1722, 1771, 1851, 1866, 1882, 1883, 1885, 1898, 1932, 1940, 2040, 2041, 2054, 2106, 2157, 2185, 2196, 2226, 2238, 2313, 2370, 2393, 2421, 2437, 2439, 2442, 2500, 2524, 2555, 2557, 2661, 2677, 2681, 2712, 2719. 2730, 2748, 2749, 2750, 2765, 2771, 2787, 2812, 2845, 2855, 2888, 2907, 2966, 3099, 3106, 3131, 3170, 3173, 3203, 3235, 3240, 3274, 3280, 3284, 3291, 3363, 3366, 3401, 3483, 3557, 3558, 3621, 3631, 3638, 3643.

12. Organic matter

114, 213, 257, 274, 279, 454, 469, 579, 598, 682, 859, 922, 1003, 1015, 1021, 1183, 1258, 1297, 1321, 1450, 1459, 1512, 1513, 1621, 1623, 1642, 1650, 1763, 1921, 1986, 2089, 2152, 2175, 2303, 2393, 2582, 2667, 2673, 2751, 2829, 2840, 3034, 3065, 3090, 3131, 3173, 3239, 3240, 3246, 3274, 3317, 3381, 3547, 3549, 3650, 3685.

13. Phosphorus

552, 2152, 2933.

14. Potash

194, 347, 552, 560, 663, 1280, 1324, 1366, 1367, 1455, 1741, 2106, 2243, 2300, 2391, 2582, 2646, 2665, 3363.

15. Sodium chloride

1410, 1928, 2046, 2176.

16. Zinc

191, 336, 337, 613, 647, 665, 857, 1029, 1346, 1587, 1791, 1812, 2356, 2488, 2579, 3193, 3401.

XV. OXYGEN

A. General

133, 217, 223, 361, 534, 577, 807, 889, 891, 1435, 1614, 1776, 1783, 2285, 3415, 3460.

B. Air—Influence on:

1. Physiological processes, etc.

716, 748, 1164, 1439, 1753, 1802, 1896, 2227, 2330, 2383, 3152, 3683.

2. Spore germination and mycelial growth

4, 214, 286, 403, 487, 637, 638, 766, 779, 789, 812, 822, 966, 967, 1402, 1637, 1638, 1721, 1839, 1870, 1905, 1923, 2164, 2357, 2526, 2827, 3033, 3247, 3336, 3367, 3646, 3662.

C. Soil

32, 120, 154, 190, 214, 224, 273, 345, 474, 475, 476, 477, 478, 536, 576, 577, 585, 598, 692, 856, 859, 893, 973, 992, 1060, 1062, 1139, 1172, 1187, 1220, 1223, 1371, 1435, 1480, 1481, 1483, 1484, 1495, 1511, 1512, 1513, 1514, 1515, 1516, 1517, 1518, 1519, 1545, 1554, 1555, 1613, 1716, 1792, 1869, 1870, 1871, 1934, 1937, 1960, 1991, 2015, 2016, 2017, 2127, 2186, 2197, 2225, 2309, 2383, 2408, 2451, 2493, 2502, 2555, 2621, 2642, 2751, 2752, 2753, 2801, 2827, 2840, 2924, 2956, 2963, 3072, 3083, 3086, 3182, 3235, 3557, 3641, 3642.

XVI. RAIN—Influence on:

A. Spore production and distribution

311, 431, 440, 539, 670, 948, 949, 984, 985, 1025, 1035, 1068, 1069, 1169, 1374, 1568, 1622, 1684, 1690, 1887, 1907, 2059, 2200, 2513, 2551, 2634, 2880, 2918, 2919, 3012, 3209, 3422, 3453, 3634.

B. Infection

12, 108, 284, 480, 489, 505, 506, 544, 573, 671, 791, 880, 884, 1152, 1704, 1841, 1885, 1887, 2140, 2200, 2363, 2474, 2475, 2476, 2634, 2880, 2881, 2984, 3028, 3105, 3130, 3361, 3371, 3442, 3502, 3620, 3665.

C Disease incidence

13, 24, 34, 58, 119, 121, 140, 166, 197, 198, 201, 264, 265, 321, 322, 334, 355, 380, 412, 451, 459, 460, 461, 482, 489, 505, 518, 519, 581, 582, 584, 630, 794, 813, 832, 834, 962, 974, 982, 1005, 1013, 1034, 1077, 1086, 1102, 1110, 1123, 1142, 1153, 1210, 1218, 1256, 1257, 1260, 1261, 1263, 1264, 1267, 1380, 1456, 1458, 1460, 1469, 1544, 1559, 1564, 1597, 1668, 1706, 1760, 1824, 1841, 1876, 1907, 1932, 1946, 1968, 2055, 2115, 2150, 2170, 2172, 2241, 2243, 2252, 2262, 2283, 2289, 2392, 2432, 2433, 2465, 2477, 2485, 2552, 2577, 2585, 2594, 2606, 2617, 2642, 2658, 2668, 2757, 2759, 2763, 2769, 2916, 2920, 2924, 2926, 2967, 2968, 2973, 3114, 3136, 3180, 3204, 3237, 3241, 3253, 3269, 3297, 3304, 3310, 3360, 3395, 3405, 3414, 3421, 3422, 3426, 3443, 3451, 3494, 3511, 3523, 3525, 3559, 3619, 3676.

D. Physiological and mechanical effects

252, 522, 588, 1018, 1064, 1140, 1175, 1323, 1389, 1440, 1510, 1515, 1613, 1704, 2075, 2240, 2241, 2242, 2265, 2726, 2992, 2993, 3211, 3290.

E. Spray injury

143, 193, 291, 292, 586, 941, 1388, 2658, 2800, 3149, 3441.

XVII. SOIL—Influence on:

A. Fungous diseases

1. Condition, physical

233, 279, 303, 384, 389, 445, 513, 581, 589, 641, 725, 751, 832, 833, 850, 870, 881, 1008, 1060, 1062, 1086, 1122, 1210, 1297, 1515, 1516, 1592, 1621, 1635, 1763, 1765, 1906, 1960, 2098, 2157, 2360, 2394, 2417, 2427, 2442, 2464, 2593, 2601, 2718, 2742, 2745, 2870, 2924, 2957, 3216, 3246, 3315, 3316, 3361, 3368, 3427, 3467, 3468, 3494, 3533, 3643.

2. Type, texture, etc.

50, 105, 198, 233, 279, 384, 389, 481, 520, 544, 581, 606, 608, 641, 751, 832, 847, 850, 877, 878, 922, 965, 1008, 1018, 1023, 1026, 1089, 1091, 1122, 1124, 1144, 1149, 1180, 1189, 1221, 1242, 1271, 1278, 1297, 1308, 1315, 1328, 1348, 1382, 1415, 1417, 1499, 1515, 1516, 1564, 1570, 1606, 1614, 1621, 1680, 1682, 1691, 1760, 1763, 1895, 1907, 1932, 1945, 2043, 2056, 2098, 2157, 2181, 2197, 2274, 2338, 2394, 2417, 2427, 2464, 2583, 2593, 2594, 2601, 2605, 2649, 2656, 2742, 2745, 2764, 2772, 2828, 2829, 2849, 2920, 2924, 2957, 2963, 2966, 2989, 3001, 3041, 3042, 3065, 3077, 3090, 3106, 3167, 3183, 3184, 3186, 3206, 3246, 3247, 3252, 3361, 3364, 3378, 3416, 3467, 3468, 3494, 3515, 3533, 3534, 3549, 3628, 3637, 3643,

B. Physiological activities

1. Condition, physical

7, 72, 114, 168, 173, 190, 227, 345, 354, 367, 445, 453, 656, 659, 692, 693, 706, 715, 731, 859, 920, 923, 969, 989, 1003, 1018, 1062, 1064, 1139, 1141, 1187, 1191, 1197, 1211, 1349, 1362, 1370, 1409, 1416, 1426, 1446, 1495, 1506, 1716, 1719, 1741, 1746, 1762, 1815, 1898, 1956, 2002, 2033, 2096, 2135, 2143, 2144, 2145, 2184, 2186, 2201, 2263, 2586, 2591, 2600, 2621, 2703, 2721, 2750, 2751, 2758, 2801, 2996, 3043, 3086, 3212, 3389, 3399, 3445, 3446.

2. Type, texture, etc.

72, 114, 138, 168, 173, 195, 227, 243, 354, 367, 370, 453, 464, 468, 484, 494, 563, 612, 627, 656, 659, 692, 706, 713, 715, 729, 734, 854, 859, 920, 923, 964, 989, 999, 1002, 1003, 1006, 1014, 1018, 1083, 1085, 1141, 1174, 1187, 1191, 1235, 1239, 1318, 1362, 1368, 1370, 1426, 1495, 1500, 1506, 1510, 1512, 1518, 1519, 1613, 1654, 1719, 1722, 1737, 1741, 1762, 1898, 1956, 1992, 2002, 2043, 2093, 2096, 2135, 2143, 2144, 2145, 2183, 2201, 2286, 2329, 2416, 2499, 2530, 2559, 2586, 2591, 2600, 2621, 2631, 2669, 2751, 2752, 2786, 2815, 2816, 2869, 2987, 2996, 3046, 3147, 3192, 3346, 3445, 3446, 3476, 3618.

XVIII. SMOKE, VAPOR, DUST

A. General (Including dust and soot injury)

52, 53, 294, 295, 540, 578, 837, 911, 1099, 1100, 1344, 1578, 1585, 1618, 2267, 2273, 2445, 2460, 2461, 2502, 2543, 2567, 2568, 2789, 2790, 2793, 3334, 3624.

B. Air (Fumes, gas, smoke, and vapor injuries)

38, 39, 44, 109, 146, 156, 179, 259, 290, 425, 426, 466, 483, 564, 624, 679, 680, 684, 685, 686, 687, 744, 771, 773, 837, 861, 894, 895, 908, 909, 910, 1019, 1030, 1036, 1062, 1098, 1099, 1109, 1143, 1159, 1174, 1177, 1209, 1246, 1247, 1274, 1342, 1343, 1344, 1347, 1358, 1359, 1360, 1361, 1383, 1384, 1411, 1416, 1423, 1424, 1525, 1553, 1578, 1585, 1751, 1777, 1782, 1788, 1790, 1793, 1796, 1804, 1948, 1957, 2019, 2032, 2097, 2186, 2203, 2222, 2265, 2267, 2272, 2273, 2322, 2324, 2325, 2340, 2386, 2387, 2388, 2405, 2406, 2413, 2430, 2502, 2565, 2567, 2568, 2632, 2685, 2695, 2698, 2702, 2771, 2785, 2789, 2790, 2791, 2793, 2794, 2824, 2901, 2902, 2903, 2933, 3055, 3066, 3073, 3082, 3084, 3160, 3163, 3175, 3226, 3271, 3334, 3499, 3524, 3530, 3576, 3578, 3580, 3582, 3584, 3586, 3587, 3588, 3598, 3622, 3623, 3624, 3657.

C. Soil (Gas and waste injuries)

132, 272, 357, 360, 501, 585, 624, 858, 860, 875, 911, 1020, 1062, 1205, 1334, 1360, 1585, 1751, 1788, 1929, 1957, 2186, 2273, 2302, 2355, 2789, 2887, 2983, 3083, 3088, 3169, 3172, 3175, 3178, 3257, 3498, 3500, 3576, 3581, 3582, 3584, 3585, 3587.

XIX. TEMPERATURE RELATIONS

A. Air

1. General effects

35, 131, 244, 269, 351, 389, 474, 527, 544, 566, 596, 609, 741, 785, 789, 809, 876, 907, 926, 931, 942, 971, 972, 1055, 1113, 1119, 1174, 1210, 1267, 1317, 1336, 1355, 1379, 1417, 1439, 1473, 1527, 1564, 1647, 1769, 1774, 1776, 1813, 1894, 1925, 1968, 2043, 2090, 2092, 2239, 2261, 2262, 2329, 2380, 2396, 2397, 2407, 2435, 2469, 2471, 2473, 2476, 2479, 2503, 2597, 2601, 2647, 2653, 2726, 2750, 2774, 2777, 2803, 2932, 2957, 2960, 2978, 3046, 3135, 3138, 3167, 3179, 3453, 3472, 3514, 3515, 3530, 3608, 3609, 3635, 3642, 3645.

2. Favoring disease, general

67, 136, 145, 151, 280, 306, 373, 374, 375, 377, 434, 513, 521, 589, 629, 708, 716, 749, 810, 815, 824, 843, 881, 981, 1000, 1013, 1024, 1026, 1075, 1103, 1145, 1161, 1162, 1163, 1165, 1168, 1302, 1308, 1379, 1417, 1469, 1515, 1525, 1526, 1610, 1612, 1627, 1689, 1690, 1859, 1877, 1932, 1946, 2249, 2265, 2424, 2473, 2476, 2531, 2536, 2575, 2576, 2628, 2655, 2754, 2769, 2774a, 3104, 3107, 3108, 3134, 3136, 3137, 3139, 3267, 3278, 3305, 3330, 3428, 3574, 3679.

3. High (above average), favoring infection and disease

79, 82, 119, 124, 144, 189, 217, 292, 314, 400, 407, 440, 460, 493, 509, 510, 520, 543, 660, 719, 722, 748, 800, 810, 821, 834, 844, 849, 900, 939, 950, 983, 1005, 1024, 1075, 1102, 1123, 1133, 1136, 1140, 1153, 1163, 1164, 1199, 1257, 1260, 1263, 1302, 1321, 1325, 1337, 1338, 1339, 1348, 1390, 1525, 1540, 1547, 1566, 1575, 1588, 1603, 1668, 1709, 1732, 1746, 1764, 1779, 1875, 1905, 1924, 1936, 1950, 1969, 1988, 2024, 2033, 2095, 2170, 2233, 2234, 2287, 2289, 2384, 2424, 2464, 2465, 2467, 2493, 2511, 2591, 2592, 2606, 2642, 2667, 2711, 2726, 2731, 2747, 2757, 2879, 2902, 2910, 2918, 2948, 2997, 3008, 3028, 3065, 3152, 3180, 3250, 3253, 3255, 3268, 3292, 3305, 3315, 3316, 3318, 3356, 3357, 3386, 3396, 3434, 3451, 3556, 3567, 3643.

4. Low (below average), favoring infection and disease

2, 13, 15, 68, 97, 166, 182, 190, 281, 499, 522, 524, 601, 625, 703, 748, 811, 883, 884, 936, 1022, 1034, 1087, 1096, 1171, 1201, 1202, 1217, 1294, 1389, 1392, 1414, 1434, 1442, 1479, 1509, 1521, 1525, 1600, 1687, 1702, 1732, 1802, 1864, 1898, 1992, 2055, 2161, 2225, 2269, 2291, 2303, 2332, 2390, 2432, 2437, 2616, 2629, 2642, 2654, 2661, 2670, 2714, 2716, 2732, 2803, 2804, 2968, 3010, 3087, 3116, 3149, 3288, 3295, 3372 3594.

5. Cardinal temperatures for:

   a. Spore formation

85, 89, 133, 183, 198, 204a, 226, 246, 286, 305, 440, 499, 541, 618, 638, 657, 746, 766, 815, 825, 874, 915, 981, 1055, 1245, 1376, 1378, 1430, 1460, 1462, 1463, 1466, 1527, 1565, 1567, 1591, 1641, 1689, 1749, 1776, 1779, 1803, 1814, 1828, 1846, 1847, 1888, 1896, 2059, 2073, 2173, 2195, 2318, 2344, 2350, 2351, 2357, 2376, 2404, 2501, 2536, 2575, 2576, 2577, 2599, 2627, 2663, 2848, 3003, 3096, 3134, 3304, 3404a, 3410, 3419, 3453, 3472, 3492, 3496, 3608, 3609, 3620, 3654.

b. Spore germination

21, 40, 61, 75, 88, 89, 157, 178, 209, 214, 216, 225, 362, 366, 374, 390, 429, 469, 470, 549, 618, 649, 683, 696, 717, 718, 761, 766, 787, 788, 789, 794, 808, 812, 822, 825, 839, 840, 874, 891, 927, 928, 929, 970, 1008, 1025, 1027, 1032, 1039, 1055, 1072, 1073, 1112, 1194, 1208, 1250, 1269, 1294, 1296, 1300, 1306, 1350, 1378, 1379, 1430, 1431, 1444, 1460, 1461, 1462, 1464, 1466, 1473, 1476, 1523, 1550, 1557, 1558, 1563, 1566, 1567, 1573, 1591, 1601, 1628, 1637, 1638, 1639, 1640, 1641, 1646, 1692, 1729, 1733, 1756, 1766, 1779, 1824, 1825, 1827, 1829, 1854, 1876, 1920, 1958, 1978, 1982, 1983, 1998, 2004, 2005, 2006, 2007, 2153, 2155, 2161, 2162, 2164, 2168, 2169, 2171a, 2173, 2192, 2268, 2269, 2304, 2305, 2318, 2336, 2344, 2348, 2349, 2350, 2351, 2358, 2362, 2369, 2452, 2454, 2491, 2510, 2564, 2566, 2573, 2574, 2587, 2595, 2602, 2605, 2610, 2627, 2628, 2663, 2672, 2718, 2809, 2819, 2836, 2848, 2856, 2871, 2898, 2944, 2964, 3051, 3103, 3220, 3311, 3314, 3315, 3325, 3326, 3328, 3352, 3385, 3404a, 3408, 3426, 3436, 3461, 3463, 3486, 3487, 3502, 3503, 3504, 3510, 3529, 3542, 3589, 3590, 3611, 3620, 3646, 3658, 3659, 3680.

c. Vegetative growth

5, 6, 11, 16, 17, 18, 28, 40, 45, 60, 61, 80, 130, 133, 145, 152, 159, 165, 167, 175, 198, 214, 220, 221, 231, 232, 241, 246, 251, 270, 279, 285, 286, 287a, 289, 310, 313, 340, 341, 346, 350, 373, 374, 378, 397, 398, 399, 400, 401, 406, 409, 410, 411, 414, 415, 417, 427, 452, 469, 512, 520, 534, 535, 538, 546, 547, 556, 565, 567, 593, 598, 618, 646, 648, 682, 695, 701, 714, 719, 728, 735, 746, 753, 757, 758, 759, 766, 774, 775, 776, 777, 778, 779, 780, 783, 817, 820, 823, 825, 839, 840, 842, 844, 845, 851, 863, 864, 865, 866, 867, 868, 874, 913, 922, 930, 952, 953, 954, 961, 997, 1011, 1027, 1031, 1034, 1072, 1073, 1076, 1077, 1078, 1114, 1122, 1152, 1153, 1166, 1184, 1206, 1245, 1254, 1276, 1281, 1282, 1283, 1290, 1292, 1296, 1297, 1299, 1303, 1305, 1306, 1310, 1353, 1357, 1385, 1386, 1396, 1397, 1398, 1401, 1403, 1404, 1405, 1406, 1420, 1422, 1430, 1442, 1444, 1457, 1531, 1539, 1556, 1561, 1575, 1576, 1589, 1591, 1596, 1604, 1635, 1640, 1643, 1645, 1667, 1672, 1673, 1674, 1682, 1688, 1692, 1697, 1701. 1706, 1709, 1733, 1747, 1748, 1749, 1756, 1775, 1779, 1789, 1803, 1807, 1808, 1820, 1824, 1830, 1839, 1842, 1846, 1855, 1856, 1857, 1862, 1867, 1873, 1879, 1888, 1891, 1897, 1909, 1911a, 1912, 1917, 1921, 1922, 1923, 1925, 1951, 1952, 1970, 1982, 1983, 2007, 2009, 2010, 2025, 2027, 2030, 2058, 2063, 2064, 2068, 2069, 2072, 2074, 2108, 2109, 2110, 2111, 2112, 2114, 2129, 2131, 2151, 2164, 2166, 2167, 2178, 2192, 2202, 2210, 2211, 2216, 2233, 2235, 2236, 2237, 2268, 2275, 2311, 2312, 2320, 2321, 2344, 2346, 2348, 2350, 2351, 2352, 2361, 2363, 2365, 2369, 2376, 2381, 2404, 2424a, 2433, 2456, 2463, 2468, 2491, 2501, 2545, 2546, 2550, 2564, 2571, 2573, 2576, 2595, 2596, 2598, 2599, 2610, 2611, 2672, 2696, 2706, 2710, 2739, 2740, 2742, 2745, 2755, 2757, 2761, 2762, 2780, 2798, 2799, 2802, 2827, 2834, 2835, 2837, 2839, 2841, 2842, 2848, 2850, 2851, 2856, 2868, 2883, 2884, 2905, 2913, 2931, 2944, 2950, 2964, 2980, 2984, 2985, 3000, 3008, 3014, 3018, 3019, 3021, 3023, 3024, 3025, 3026, 3027, 3030, 3031, 3031a, 3033, 3035, 3056, 3097, 3114, 3115, 3129, 3185, 3199, 3223, 3241, 3242, 3243, 3272, 3273, 3280, 3283, 3285, 3294, 3298, 3302, 3304, 3305, 3306, 3307, 3308, 3320, 3321, 3322, 3325, 3326, 3328, 3336, 3338, 3350, 3362, 3378, 3389, 3398, 3409, 3410, 3419, 3425, 3426, 3434, 3436, 3437, 3439, 3440, 3459, 3460, 3466, 3488, 3489, 3491, 3492, 3494, 3496, 3503, 3507, 3510, 3526, 3562, 3571, 3573, 3590, 3592, 3615, 3617, 3630, 3633, 3647, 3654, 3656, 3660, 3669, 3672, 3680.

d. Infection

11, 16, 17, 18, 76, 153, 232, 270, 286, 310, 318, 319, 400, 511, 549, 658, 719, 760, 787, 826, 872, 891, 923, 924, 953, 1093, 1094, 1118, 1188, 1198, 1199, 1276, 1294, 1305, 1353, 1356, 1379, 1399, 1501, 1523, 1538, 1566, 1600, 1601, 1607, 1627, 1629, 1639, 1643, 1644, 1678, 1728, 1729, 1730, 1733, 1734, 1806, 1825, 1841, 1842, 1844, 1854, 1855, 1857, 1860, 1861, 1862, 1925, 1965, 1993, 2006, 2131, 2162, 2173, 2194, 2233, 2236, 2269, 2276, 2292, 2314, 2348, 2358, 2362, 2369, 2376, 2470, 2474, 2475, 2497, 2527, 2573, 2576, 2605, 2614, 2627, 2648, 2649, 2652, 2706, 2707, 2708, 2709, 2757, 2761, 2763, 2875, 2984, 3002, 3003, 3004, 3005, 3007, 3194, 3196, 3280, 3301, 3313, 3315, 3318, 3339, 3371, 3392, 3426, 3430, 3463, 3487, 3503, 3507, 3521, 3522, 3526, 3572, 3603, 3617, 3620, 3637, 3680.

e. Disease development

18, 27, 61, 63, 66, 82, 152, 172, 233, 234, 246, 346, 365, 379, 456, 498a, 568, 571, 573, 574, 630, 746, 747, 752, 755, 786, 793, 805, 850, 891. 924, 929, 933, 953, 960, 961, 982, 993, 1026, 1043, 1058, 1065, 1068, 1074, 1094, 1134, 1142, 1179, 1186, 1270, 1291, 1298, 1302, 1304, 1307, 1310, 1311, 1353, 1399, 1502, 1531, 1570, 1571, 1583, 1593, 1605, 1607, 1608, 1610, 1611, 1644, 1645, 1689, 1754, 1755, 1806, 1844, 1857, 1888, 2005, 2026, 2067, 2113, 2114, 2165, 2171a, 2218, 2236, 2373, 2377, 2423, 2450, 2545, 2547, 2594, 2595, 2596, 2627, 2629, 2636, 2705, 2730, 2756, 2837, 2838, 2876, 2883, 2916, 2962, 2981, 2984, 2999, 3001, 3014, 3039, 3109, 3110, 3195, 3289, 3301, 3304, 3316, 3374, 3376, 3377, 3433, 3434, 3439, 3440, 3493, 3494, 3495, 3506, 3529, 3563, 3602, 3603, 3668, 3671, 3672.

6. Lethal temperatures for spores, mycelium, viruses, etc.

5, 40, 85. 130, 152, 205, 214, 220, 235, 287a, 301, 310, 311. 344, 397, 398, 399, 400, 401, 409, 410, 411, 414, 415, 416, 417, 439, 505, 570, 572, 590, 593, 618, 701, 774, 775, 777, 778, 779, 783, 784, 786, 826, 843, 863, 864, 865, 866, 867, 868, 872, 925, 981, 1076, 1077, 1078, 1150, 1155, 1179, 1282, 1283, 1290, 1300, 1321, 1385, 1386, 1398, 1430, 1437, 1485, 1552, 1556, 1581, 1591, 1598, 1612, 1617, 1635, 1672, 1673, 1674, 1697, 1736, 1748, 1779, 1795, 1807, 1808, 1818, 1822, 1842, 1879, 1888, 1905, 1911a, 1912, 1922, 1949, 1952, 1970, 2025, 2027, 2057, 2067, 2078, 2107, 2108, 2109, 2110, 2111, 2112, 2132, 2151, 2173, 2202, 2210, 2211, 2216, 2239, 2284, 2289, 2290, 2305, 2312, 2335, 2344, 2346, 2348, 3249, 2350, 2361, 2374, 2381, 2403, 2420, 2422, 2423, 2424a, 2468, 2510, 2536, 2590a, 2606, 2640, 2701, 2745, 2761, 2798, 2799, 2841, 2847, 2848, 2925, 2950, 3013, 3017, 3018, 3019, 3020, 3021, 3022, 3024, 3025, 3026, 3027, 3030, 3031a, 3036, 3052, 3114, 3143, 3190, 3225, 3233, 3243, 3285, 3321, 3322, 3323, 3326, 3336, 3380, 3438, 3463, 3491, 3502, 3504, 3527, 3562, 3629, 3630, 3632, 3634, 3654.

7. Storage temperatures and disease or injury

9, 10, 27, 28, 151, 171. 368, 371, 372, 374, 375, 376, 377, 380, 498a, 691, 712, 855, 883, 985, 1166, 1291, 1670, 1692, 1754, 1855, 1856, 1857, 1858, 1859, 1860, 1925, 2022, 2026, 2091, 2093, 2373, 2517, 2518, 2519, 2520, 2521, 2559, 2562, 2563, 2584, 2596, 2760, 2832, 2905, 2916, 3033, 3047, 3152, 3298, 3420, 3434, 3474, 3503, 3504, 3522, 3574, 3589.

B. Soil

1. General effects

178, 437, 763, 1184, 1221, 1678, 1698, 1710, 2133, 2231, 2293, 2467, 2815, 2816, 2826, 3001, 3421, 3424.

2. High (above average), favoring infection and disease
63, 68, 122, 370, 734, 854, 992, 1133, 1163, 1167, 1168, 1184, 1319, 1320, 1560, 1680, 1696, 1699, 1707, 1799, 1875, 1986, 1992, 2287, 3256, 3330, 3566, 3567.
3. Low (below average), favoring infection and disease
641, 1181, 1680, 1684, 2067, 2392, 3240, 3479, 3480.
4. Cardinal temperatures for infection and disease development
320, 545, 565, 749, 753, 754, 756, 757, 758, 761, 793, 826, 838, 869, 887, 995, 996, 997, 1111, 1154, 1166, 1308, 1309, 1348, 1356, 1373, 1377, 1421, 1465, 1543, 1594, 1595, 1596. 1606, 1619, 1620, 1621, 1623, 1630, 1642, 1684, 1685, 1686, 1700, 1701, 1707, 1708, 1709, 1895, 1902, 1903, 1916, 1921, 1966, 1988, 2065, 2066, 2129, 2130, 2133, 2158, 2159, 2230, 2358, 2375, 2377, 2548, 2590, 2637, 2650, 2687, 2688, 2689, 2691, 2692, 2705, 3199, 3297, 3298, 3302, 3305, 3308, 3312, 3352, 3421, 3425, 3426, 3429, 3430, 3431, 3433, 3440, 3480, 3532, 3669, 3670, 3671, 3672, 3673.

C. Frost and low temperature injury
1, 33, 91, 134, 166, 186, 187, 188, 199, 208, 245, 247, 266, 275, 276, 288, 296, 367, 431, 458, 524, 531, 585, 591, 669, 673, 699, 707, 724, 726, 733, 738, 742, 743, 765, 798, 980, 994, 1059, 1164, 1171, 1173, 1216, 1253, 1268, 1313, 1314, 1325, 1335, 1354, 1387, 1389, 1390, 1395, 1414, 1428, 1528, 1532, 1535, 1632, 1702, 1703, 1714, 1715, 1718, 1759, 1798, 1801, 1845, 1931, 1932, 1979, 2001, 2033, 2062, 2077, 2084, 2103, 2205, 2217, 2221, 2224, 2265, 2277, 2278, 2279, 2281, 2317, 2322, 2323, 2325, 2326, 2343, 2354, 2409, 2419, 2434, 2453, 2482, 2490, 2495, 2508, 2621, 2635, 2666, 2675, 2680, 2754, 2779, 2831, 2843, 2865, 2874, 2894, 2896, 2929, 2975, 3038, 3058, 3069, 3070, 3071, 3072, 3074, 3075, 3079, 3080, 3081, 3117, 3149, 3157, 3342, 3354, 3355, 3384, 3411, 3412, 3413, 3448, 3460, 3469, 3485, 3508, 3536, 3538, 3577, 3614, 3616, 3639, 3652, 3661, 3675, 3686.

D. Winter injury
7, 132, 155, 185, 187, 255, 256, 302, 307, 308, 404, 424, 462, 525, 526, 537, 575, 583, 624, 661 672, 674, 799, 892, 897, 919, 946, 986, 1053, 1140, 1148, 1190, 1192, 1201, 1277, 1293, 1317, 1370, 1371, 1383, 1387, 1391, 1429, 1431, 1432, 1441, 1452, 1506, 1521, 1590, 1647, 1745, 1759, 1784, 1786, 1994, 1996, 1997, 2003, 2072, 2102, 2104, 2141, 2145, 2171, 2186, 2208, 2244, 2257, 2261, 2288, 2315, 2327, 2329, 2399. 2400, 2416, 2418, 2553, 2554, 2734, 2736, 2741, 2743, 2814, 2815, 2816, 2844, 2864, 2923, 2928, 2951, 3037, 3061, 3113, 3121, 3153, 3171, 3174, 3176, 3178, 3179, 3205, 3257, 3260. 3261, 3262, 3277, 3281, 3282, 3414, 3444, 3452, 3454, 3531, 3560, 3561, 3570, 3575, 3591.

XX. TIME FACTOR (Influence on viability, infectiveness, etc., of spores)
136, 167, 366, 373, 374, 377, 429, 507, 539, 718, 766, 789, 808, 822, 849, 876, 898, 907, 922, 947, 954, 960, 961, 1022, 1032, 1092, 1093, 1110, 1198, 1199, 1206, 1254, 1350, 1473, 1485, 1563, 1565, 1728, 1729, 1730, 1733, 1856, 1860, 2010, 2107, 2210, 2276, 2304, 2366, 2374, 2471, 2510, 2536, 2566, 2569, 2570, 2587, 2628, 2851, 3300, 3303, 3305, 3330, 3487, 3496, 3611, 3682.

XXI. TOXINS AND CHEMOTROPIC RESPONSES
335, 336, 337, 467, 503, 557, 558, 559, 633, 790, 812, 818, 881, 1022, 1040, 1107, 1225. 1226, 1227, 1299, 1341, 1352, 1369, 1458, 1468, 1539, 1602, 1717, 1776. 1826, 2013, 2035, 2036, 2100, 2251, 2310, 2488, 2506, 2676, 2738, 2987, 3122, 3123, 3126, 3193, 3332, 3347, 3653, 3682.

XXII. VENTILATION

A. Air drainage, etc.
257, 369, 534, 638, 645, 1417, 1546, 2299, 2447, 2774a, 2811, 2812, 3215, 3331, 3357, 3616.

HOST-DISEASE-INJURY INDEX

HOST INDEX (SCIENTIFIC NAMES)